MEX-M70BT

SERVICE MANUAL

US Model
Canadian Model

Ver. 1.3 2014.12

Note: This service manual is also applicable to areas other than the US and Canadian.



The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-G3000UP
Mechanism Type	MG-101CF-188
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

FOR THE CUSTOMERS IN THE USA. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CLIENTS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS

CEA2006 Standard
Power Output: 17 Watts RMS × 4 at 4 Ohms < 1% THD+N
SN Ratio: 80 dBA
(reference: 1 Watt into 4 Ohms)

Tuner section

FM

Tuning range:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 108.0 MHz (at 100 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

AM

Tuning range:
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
AM tuning step:
9 kHz/10 kHz switchable
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz (at 9 kHz step)
9,115 kHz or 9,125 kHz/5 kHz (at 10 kHz step)
Sensitivity: 26 μV

CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit
Corresponding codec: MP3 (.mp3) and WMA (.wma)

USB Player section

Interface: USB (High-speed)
Maximum current: 1 A (front), 2.1 A (rear)
The maximum number of recognizable tracks:
10,000
Corresponding codec:
MP3 (.mp3), WMA (.wma) and WAV (.wav)

Wireless Communication

Communication System:
BLUETOOTH Standard version 3.1
Output:
BLUETOOTH Standard Power Class 2
(Max. +4 dBm)
Maximum communication range:
Line of sight approx. 10 m (33 ft)*1
Frequency band:
2.4 GHz band (2.4000 – 2.4835 GHz)
Modulation method: FHSS
Compatible BLUETOOTH Profiles*2:
A2DP (Advanced Audio Distribution Profile) 1.3
AVRCP (Audio Video Remote Control Profile) 1.5
HFP (Handsfree Profile) 1.6
PBAP (Phone Book Access Profile)
SPP (Serial Port Profile)
MAP (Message Access Profile)
HID (Human Interface Device Profile)

*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna (aerial)'s performance, operating system, software application, etc.
*2 BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

Power amplifier section

Output: Speaker outputs
Speaker impedance: 4 – 8 ohms
Maximum power output: 55 W × 4 (at 4 ohms)

General

Outputs:
Audio outputs terminal (front, rear, sub)
Power antenna (aerial)/Power amplifier control terminal (REM OUT)
Inputs:
SiriusXM input terminal
Remote controller input terminal
Antenna (aerial) input terminal
MIC input terminal
AUX input jack (stereo mini jack)
USB port: front, rear
Power requirements:
12 V DC boat battery (negative ground (earth))
Dimensions:
Approx. 178 mm × 50 mm × 177 mm
(7 1/8 in × 2 in × 7 in) (w/h/d)
Mounting dimensions:
Approx. 182 mm × 53 mm × 160 mm
(7 1/4 in × 2 1/8 in × 6 5/16 in) (w/h/d)
Mass: Approx. 1.2 kg (2 lb 11 oz)
Package contents:
Remote commander (1): RM-X231
Microphone (1)
Parts for installation and connections (1 set)
Marine remote commander: RM-X11M

* Accessories/equipment other than the marine remote commander RM-X11M are not waterproof. Do not subject them to water.

Design and specifications are subject to change without notice.

Bluetooth® AUDIO SYSTEM

9-893-929-04
2014L33-1

Sony Corporation
Published by Sony Techno Create Corporation

SONY®

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SiriusXM Connect Vehicle Tuner and Subscription sold separately.
www.siriusxm.com

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
The use of optical instruments with this product will increase eye hazard.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

TABLE OF CONTENTS

Accessories are given in the last of the electrical parts list.

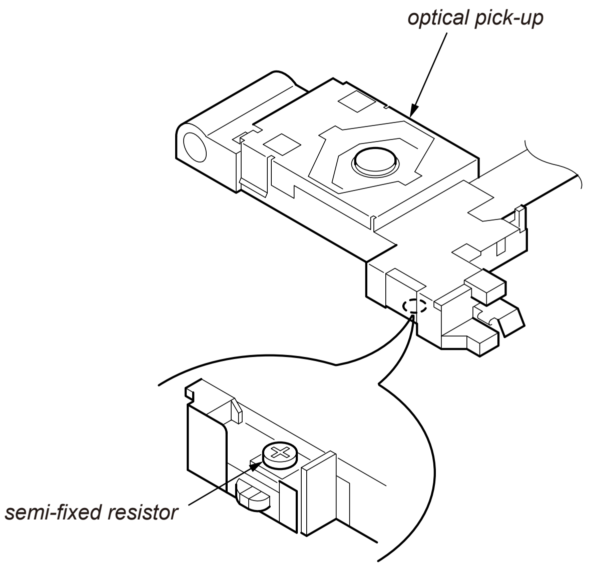
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right above when checking it for adjustment. It is feared that you will lose your sight.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

DESTINATION SETTING METHOD

When the complete MAIN board or IC502 on the MAIN board is replaced, the destination setting is necessary.

1. Destination Setting

Set destination according to the procedure below.

1-1. Setting the Destination Code

1. In the state of source off (the clock is displayed), enter the test mode by pressing the buttons in order of the [⟲ 4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).
2. In the state in which the software main version is displayed on the liquid crystal display (refer to following figure), enter the destination setting mode by pressing the buttons in order of the [▶▶I ▶▶ SEEK+] → [SEEK– ◀◀ I◀◀] → [PUSH ENTER/ VOICE/━ APP].
   (Displayed characters/values in the following figure are example)

Software main version



3. Input the alphanumeric character of 12 digits of "F XXXXXX" displayed on the liquid crystal display, and execute the destination setting.

Note: Refer to following "1-3. Entering the Destination Code" for operation method.

4. The resetting operation is executed by pressing the [━ OFF SRC] button for 1 second after the setting ends, and the unit returns to the normal condition.

1-2. Display in Destination Setting Mode

(Displayed characters/values in the following figure are example)

Destination code

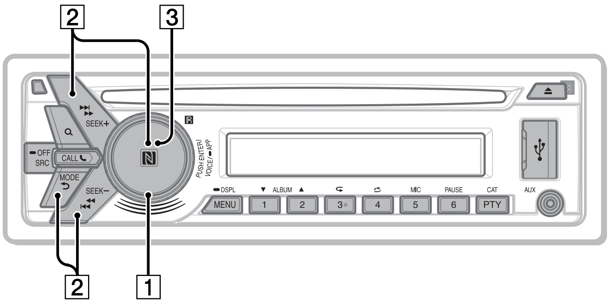


OP5 OP4 OP3 OP2 OP1 OP0

12 digits

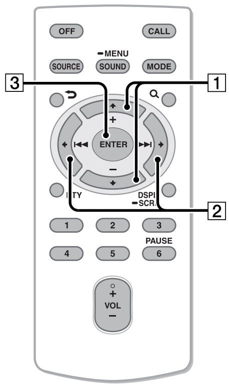
1-3. Entering the Destination Code

- **Method of operation by main unit**



1. Rotate the control dial, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [PUSH ENTER/VOICE/━ APP] or [▶▶I ▶▶ SEEK+] button.
   The digit returns by pressing the [MODE ⮌] or [SEEK– ◀◀ I◀◀] button.
3. The setting is completed by pressing the [PUSH ENTER/ VOICE/━ APP] button, and the initialization operation is done.

- **Method of operation by remote commander**



1. Press the [▲] or [▼] button, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [▶] button.
   The digit returns by pressing the [◀] button.
3. The setting is completed by pressing the [ENTER] button, and the initialization operation is done.

– Continued on next page –

1-4. Destination Code

OP5	OP4	OP3	OP2	OP1	OP0
F	2	4	2	E	0

2. Confirmation After Destination Setting

Execute the following operation after completing the destination setting, and confirm a correct destination was set.

Destination setting checking method:

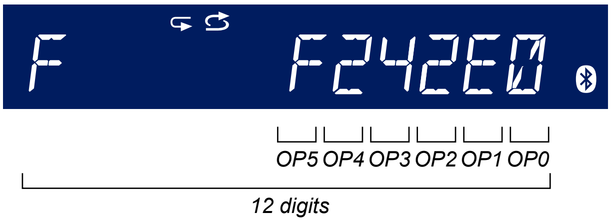
1. In the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [↻ 4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).
2. In the state in which the software main version is displayed on the liquid crystal display (refer to following figure), enter the destination setting value display mode by pressing the [━ DSPL MENU] button twice.
   (Displayed characters/values in the following figure are example)

Software main version



3. Confirm the alphanumeric character of 12 digits in liquid crystal display is a value correctly input.
   (Displayed characters/values in the following figure are example)

Destination code



4. The resetting operation is executed by pressing the [━ OFF SRC] button for 1 second after the confirming ends, and the unit returns to the normal condition.

TEST DISCS

Use following TEST DISC (for CD) when this unit confirms the operation and checks it.

Part No.	Description
3-702-101-01	DISC (YEDS-18), TEST
4-225-203-01	DISC (PATD-012), TEST

NOTE OF REPLACING THE KEY BOARD

When the KEY board is defective, replace the FRONT PANEL (SV) (ASSY) (Ref. No. FP1).

NOTE OF REPLACING THE IC804 AND IC1002 ON THE MAIN BOARD

IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

IMPORTANT NOTE OF "INITIALIZING"

The purpose of "Bluetooth Initialize" is to initialize the Bluetooth connection history (HF/Audio Streaming). (To delete the device information for the devices that you connected to when searching, etc.)
When complete MAIN board is replaced, it is necessary to initialize this unit.
Refer to the following, initialize this unit.

Note: Phonebook data and dialed/received call history can be deleted by executing "Bluetooth Initialize".

Procedure:

1. In the state of source off (the clock is displayed), press the [━ DSPL MENU] button.
2. Rotate the control dial, and select the "SET BT".
3. Press the [PUSH ENTER/VOICE/━ APP] button.
4. Rotate the control dial, and select the "SET BT INIT".
5. Press the [PUSH ENTER/VOICE/━ APP] button, and the message "SET INIT-NO" is displayed on the liquid crystal display.
6. Rotate the control dial clockwise, and the message "SET INIT-YES" is displayed on the liquid crystal display.
7. Press the [PUSH ENTER/VOICE/━ APP] button, and the message "INITIAL" is blinked on the liquid crystal display.
8. When "Bluetooth Initialize" is completed, the message "COMPLETE" is displayed on the liquid crystal display for a moment.
9. Press the [MODE ↩] button, and return to the state of source off (the clock is displayed) mode.

OPERATION CHECK OF THE NFC AFTER COMPLETING THE REPAIRS

After completing the repairs of this unit, follow the procedure below to check normal operation of the NFC.

Note: After checking of NFC operation, be sure to delete the pairing information before returning this unit to the customer.

Connecting with a Smartphone by One touch (NFC)

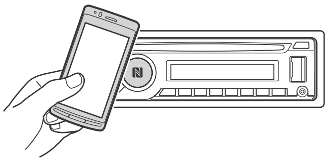
By touching the control dial on the unit with an NFC* compatible smartphone, the unit is paired and connected with the smartphone automatically.

* NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.

For a smartphone with Android OS 4.0 or lower installed, downloading the app "NFC Easy Connect" available at Google Play™ is required. The app may not be downloadable in some countries/regions.

1 **Activate the NFC function on the smartphone.**
For details, refer to the operating instructions supplied with the smartphone.

2 **Touch the N-Mark part of the unit with the N-Mark part of the smartphone.**



Make sure that Bluetooth lights up on the display of the unit.

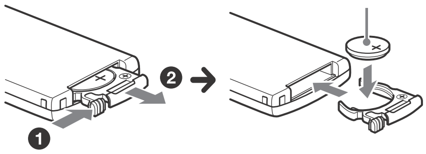
To disconnect by One touch

Touch the N-Mark part of the unit with the N-Mark part of the smartphone again.

Notes
- When making the connection, handle the smartphone carefully to prevent scratches.
- One touch connection is not possible when the unit is already connected to another NFC compatible device. In this case, disconnect the other device, and make connection with the smartphone again.

REPLACING THE LITHIUM BATTERY OF THE REMOTE COMMANDER

When the battery becomes weak, the range of the remote commander becomes shorter. Replace the battery with a new CR2025 lithium battery. Use of any other battery may present a risk of fire or explosion.

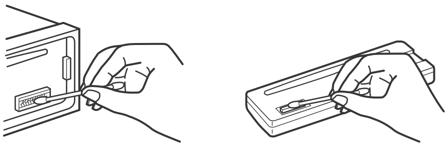


Notes on the lithium battery
- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to assure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

WARNING
Battery may explode if mistreated.
Do not recharge, disassemble, or dispose of in fire.

CLEANING THE CONNECTORS

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, detach the front panel and clean the connectors with a cotton swab. Do not apply too much force. Otherwise, the connectors may be damaged.



Notes
- For safety, turn off the ignition before cleaning the connectors, and remove the key from the ignition switch.
- Never touch the connectors directly with your fingers or with any metal device.

CANCELING THE DEMO MODE

You can cancel the demonstration display which appears while this unit is turned off.

1 **Press MENU, rotate the control dial to select [DISPLAY], then press it.**

2 **Rotate the control dial to select [DEMO], then press it.**

3 **Rotate the control dial to select [DEMO-OFF], then press it.**
The setting is complete.

4 **Press ⮌ (back) twice.**
The display returns to normal reception/play mode.

BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE

1. Required Equipment

- This unit to be tested, external microphone of attachment if necessary
- Cellular phone (Recommended SEMC W880 or W910i, or select from connectable cellular phones list)
- Bluetooth audio devices (SONY NWZ-A826, or select from connectable cellular phones/audio devices list)
- Speaker connection (at least Front L/R ch)
- DC power supply (12 V)

2. Preparation

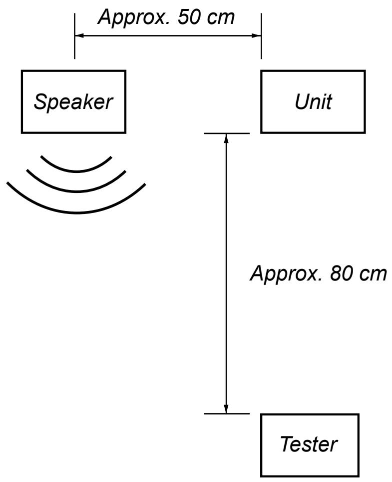
- Confirm the setting of this unit and note down it.
- Press the [CALL] button and rotate the control dial until "SET PAIRING" appears, then press it, confirm that the Bluetooth signal icon ( ) is flashing.
- Turn on the Bluetooth function of the cellular phone.

3. Test Environment

- No other Bluetooth device is making a communication in the periphery (within 20 m).
- No other this unit are supplied with electric power.
- There are no two or more wireless LAN access points in the periphery (with 50 m) (one is OK).
- The set should be tested in a place such as a meeting room, free from ambient noise.
- The speaker at the far end should be in a place such as another meeting room separated acoustically.

4. Setting

Install this unit on the desktop.



5. Precautions

Beware of the following points when conducting the talking test:

- There is no fault if a talking can be made by adjusting appropriately the volume of the telephone of the other party and the cellular phone connected through the Bluetooth, besides the setup of this unit.
- The speaker's voice will become loud naturally if the periphery is noisy, or become low if quiet (even though the speaker intents to talk on the same volume level).
- The speaker's voice will become loud naturally if the other party's voice is loud.

6. Bluetooth Phone (Hands Free) Function Check

Note: Depending on the connecting device, Signal-strength/Battery-remaining indications might not be displayed.
Or, depending on the connecting device, the levels of indications are shown incorrectly.
Even if you see no indications or wrong indications, they are not failures of this unit.

1. Search for this unit from the Bluetooth device (cellular phone), and confirm whether this unit ("Sony Car Audio") is displayed.
2. Search for the distance of this unit and the Bluetooth device (cellular phone) about 5 m apart.
   Confirm whether the Bluetooth device (or this unit) is displayed after it searches.
3. Do the pairing of the cellular phone and this unit (input of passkey).
4. Connect the cellular phone with this unit, and confirm the "HF" icon ( ) lights.
5. Confirm the connection continues even if the distance of the cellular phone and this unit is separated by about 5 m.
6. Set this unit besides the "BT PHONE" source, and call the cellular phone connected with this unit.
   Confirm the automatic change of this unit into "BT PHONE" source, and the change into the screen for incoming calls.
   Confirm the ring tone is heard from the front speaker.
7. Take a phone call (press the [CALL] button), and start a conversation.
   Confirm the other person voice is heard from the speaker.
   Speak toward the microphone of this unit, and confirm whether the other party hears its voice (At the external microphone noncontact).
   Compare the sound quality with a normal set. Confirm that there is no big difference.
8. Speak toward an external microphone at the following condition, and confirm the other party hears its voice.
   - An external microphone is connected.
9. Turn on ACC from off, and confirm whether this unit connects Bluetooth with the cellular phone again.

Note: Depending on the cellular phone, it might not reconnect automatically when ACC is turned on.

7. Bluetooth Audio Function Check

Note: Depending on the connecting BT Audio device, track information (e.g. track name, playback time) can be on display.
If the device doesn't support AVRCP1.3, or, if AVRCP1.3 feature of the device has not been validated with this unit;
the track information won't be shown.
Even if there is no track information on display during playback of an AVRCP1.3 device, it is not a failure of this unit.

1. Connect the Bluetooth audio device (or cellular phone with Bluetooth audio function) with this unit, and confirm the "Audio Streaming" icon ( ) lights.
2. Playback Bluetooth audio. Confirm the sound is emitted from this unit when this unit is switched to "Bluetooth Audio" source.
3. Confirm whether Bluetooth audio can be controlled by operating this unit (the [▶▶I ▶▶ SEEK+], [SEEK– ◀◀ I◀◀] and [PAUSE 6] buttons operation).

Note: Varies depending on the connected Bluetooth audio device.

8. What to Do after Checking

- After checking, select "SET BT INIT" from the menu list of this unit to execute initialization.
  (Connected device information is deleted)

BLUETOOTH INFORMATION WRITING METHOD

When the complete MAIN board, knob (VOL) (SV) assy or front panel (SV) (assy) is replaced, the writing of Bluetooth information is necessary.
Write the Bluetooth information according to the procedure below.

Preparation:

- Windows PC
- NFC compatible smartphone that installed the file manager application (ASTRO File Manager, File Expert, etc.)
- USB cable for the smartphone
- NFCtagWriter.apk (ver.1.0.2 and above)

Note 1: The NFCtagWriter.apk is updated. When the NFCtagWriter.apk is prepared already, be sure to refer to the “6. Version Check Method of the NFC Tag Data Writing Application for the Servicing” on the page 12, and check the version of NFCtagWriter.apk.

Note 2: Confirm the method of obtaining the NFCtagWriter.apk to the service headquarters.

1. Installing the NFC Writing Application for the Servicing

Install the NFCtagWriter.apk on the smartphone for writing of Bluetooth information.

Procedure:

1. Prepare the NFCtagWriter.apk file on the PC.
2. Connect the smartphone to the PC with the USB cable.
3. Transfer the NFCtagWriter.apk to the smartphone.
4. When tapping the “Settings” → “Security” on the screen of the smartphone, check the box “Unknown sources”.



5. Disconnect the smartphone from the PC.
6. Use the file manager application to explore the NFCtagWriter.apk on the smartphone.
7. Click on the NFCtagWriter.apk to open it, and install the NFCtagWriter.apk to the smartphone.
8. When tapping the “Settings” → “Security” on the screen of the smartphone, uncheck the box “Unknown sources”.

– Screen after the installation for reference –



NFCtagWriter application

9. Refer to the “6. Version Check Method of the NFC Tag Data Writing Application for the Servicing” on the page 12, and check the version of NFCtagWriter.apk.
   ver.0.9.0 : The use is not allowed. Install the NFCtagWriter.apk of ver.1.0.2 and above.
   ver.1.0.2 and above: The use is allowed.

2. Writing the NFC Tag Data

Write the NFC tag data (Bluetooth information) to the NFC module in the knob (VOL) (SV) assy.

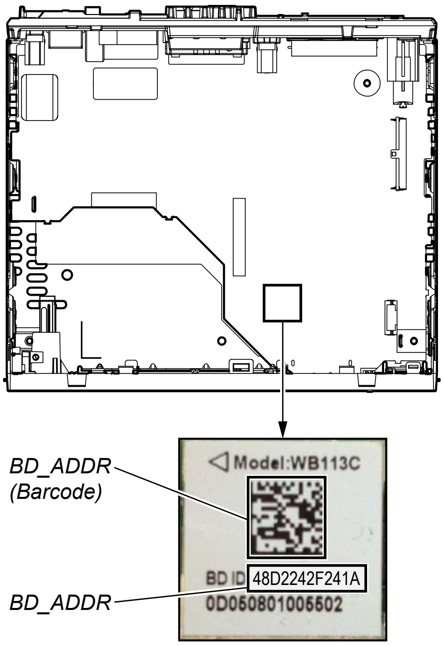
Procedure:

1. Check the Bluetooth address (BD_ADDR).
   There are following two checking methods.
   - How to read from the BT module label
   - How to display on the liquid crystal display by the test mode

How to read from the BT module label:

Set the unit to the state where the BT module (Ref. No. IC1002 on the MAIN board) can be seen.
(Refer to the “3. DISASSEMBLY” on the page 18 and after)

– MAIN board top view –



BT module label

– Continued on next page –

How to display on the liquid crystal display by the test mode:

1. In the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [⮎ 4] ⟶ [MIC 5] ⟶ [PAUSE 6] (press only the [PAUSE 6] button for two seconds).

Software main version



2. In the state in which the software main version is displayed on the liquid crystal display, enter the Bluetooth address (BD_ADDR) display mode by pressing the [▬ DSPL MENU] button.
   (Displayed characters/values in the following figure are example)

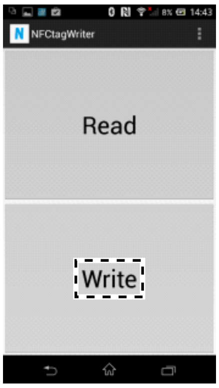
Bluetooth address (BD_ADDR)



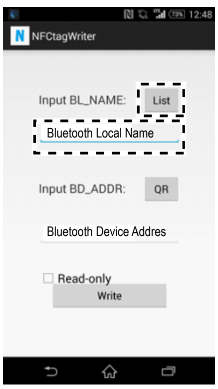
Note 1: When pressing the [▬ DSPL MENU] button again, the destination code is displayed on the liquid crystal display, but it is not necessary to display in this step.

3. The resetting operation is executed by pressing the [▬ OFF SRC] button for 1 second after the confirming ends, and the unit returns to the normal condition.

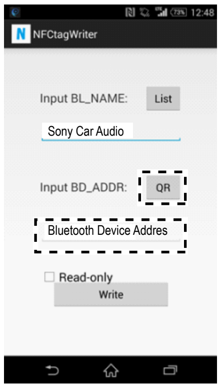
2. Turn on the NFC function of the smartphone.
3. Start the NFCtagWriter application on the smartphone.
4. Tap the “Write” on the screen of the smartphone.



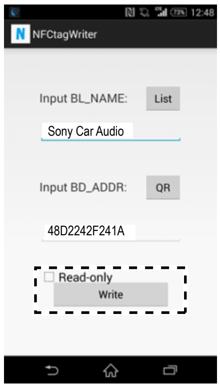
5. Input the Bluetooth Local Name (BL_NAME).
   (Input the “Sony Car Audio” with the keyboard on the smartphone, or tap the “List” on the screen of the smartphone and select the “Sony Car Audio”)



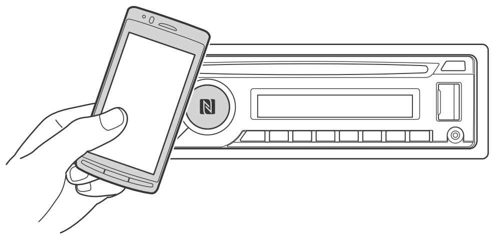
6. Input the Bluetooth address (BD_ADDR).
   (Input the Bluetooth address (BD_ADDR) that written on the BT module label with the keyboard on the smartphone, or tap the “QR” on the screen of the smartphone and read the barcode with the camera of the smartphone)



7. Tap the “Write” on the screen of the smartphone, in the state that unchecked the box “Read-only”.

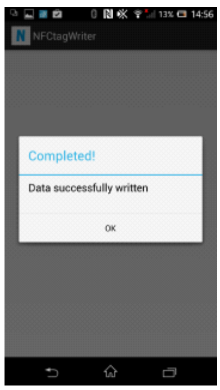


8. Touch the N-mark part of the smartphone to the N-mark part of the unit.



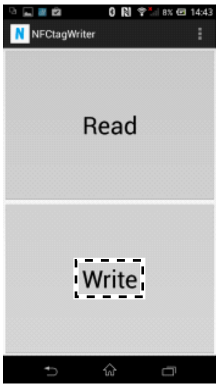
9 Check that “Completed!” is displayed on the screen of the smartphone.

Note 2: When “Completed!” is not displayed on the screen of the smartphone, refer to “3. Error Display” on the page 10.

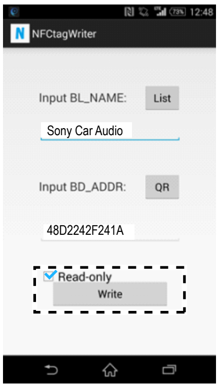


– Continued on next page –

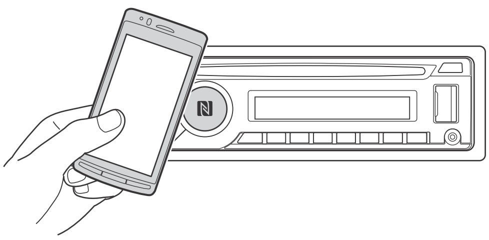
10. End the NFCtagWriter application on the smartphone.
11. Check the operation of connecting with the smartphone by one touch (NFC).
    (Refer to the "OPERATION CHECK OF THE NFC AFTER COMPLETING THE REPAIRS" on the page 6)
12. Start the NFCtagWriter application on the smartphone.
13. Tap the "Write" on the screen of the smartphone.



14. Check the box "Read-only" on the screen of the smartphone, and tap the "Write" on the screen of the smartphone.

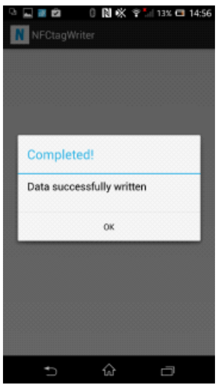


15. Touch the N-mark part of the smartphone to the N-mark part of the unit.

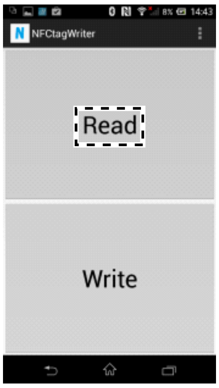


16. Check that "Completed!" is displayed on the screen of the smartphone.

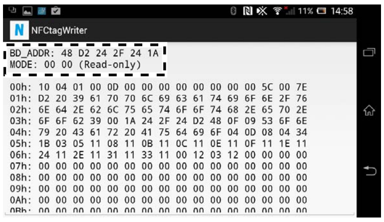
Note 3: When "Completed!" is not displayed on the screen of the smart-phone, refer to "3. Error Display".



17. Tap the "Read" on the screen of the smartphone.



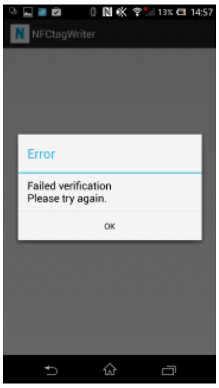
18. Check that "BD_ADDR" on the screen of the smartphone accords with BD_ADDR written on the BT module label and "MODE" on the screen of the smartphone is "00 00 (Read-only)".



19. End the NFCtagWriter application on the smartphone.
20. Check the operation of connecting with the smartphone by one touch (NFC).
    (Refer to the "OPERATION CHECK OF THE NFC AFTER COMPLETING THE REPAIRS" on the page 6)

3. Error Display

When the writing of the NFC tag data has failed, "Error" is displayed on the screen of the smartphone.
When "Error" is displayed on the screen of the smartphone, operate according to the procedure below.



Procedure:

1. Tap the "Write" on the screen of the smartphone to write of the NFC tag data again.
2. When "Error" is displayed on the screen of the smartphone again, tap the "Read" on the screen of the smartphone.
3. Check that "MODE" on the screen of the smartphone is not "00 00 (Read-only)".
4. When "MODE" on the screen of the smartphone is "00 00 (Read-only)", execute the writing of the NFC tag data again after replacing the knob (VOL) (SV) assy.
   (When "MODE" on the screen of the smartphone is "00 00 (Read-only)", the writing of the NFC tag data cannot execute)

4. Check Method of the NFC Tag Data

Check the NFC tag data according to the procedure below.

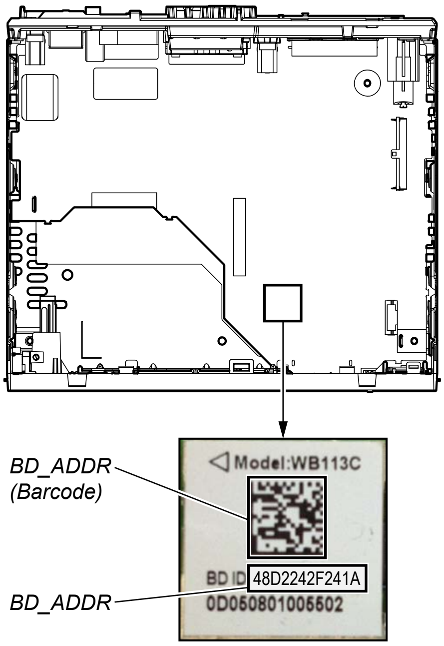
Procedure:

1. Check the Bluetooth address (BD_ADDR).
   There are following two checking methods.
   - How to read from the BT module label
   - How to display on the liquid crystal display by the test mode

How to read from the BT module label:

Set the unit to the state where the BT module (Ref. No. IC1002 on the MAIN board) can be seen.
(Refer to the “3. DISASSEMBLY” on the page 18 and after)

– MAIN board top view –



BT module label

How to display on the liquid crystal display by the test mode:

1. In the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).

Software main version



2. In the state in which the software main version is displayed on the liquid crystal display, enter the Bluetooth address (BD_ADDR) display mode by pressing the [DSPL MENU] button.
   (Displayed characters/values in the following figure are example)

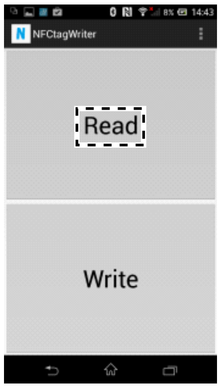
Bluetooth address (BD_ADDR)



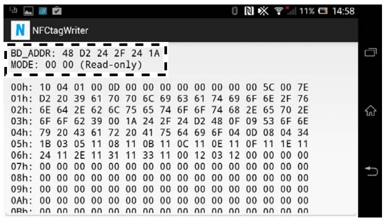
Note: When pressing the [DSPL MENU] button again, the destination code is displayed on the liquid crystal display, but it is not necessary to display in this step.

3. The resetting operation is executed by pressing the [OFF SRC] button for 1 second after the confirming ends, and the unit returns to the normal condition.

2. Turn on the NFC function of the smartphone.
3. Start the NFCtagWriter application on the smartphone.
4. Tap the “Read” on the screen of the smartphone.



5. Check that “BD_ADDR” on the screen of the smartphone accords with BD_ADDR written on the BT module label and “MODE” on the screen of the smartphone is “00 00 (Read-only)”.



6. End the NFCtagWriter application on the smartphone.

5. The Factor that One Touch Connection is Impossible

The four following factors are considered as the factor that one touch connection is impossible.
Guess and check the defective factor by each checking result.
Note: The four following factors are examples.

	Factor	Bluetooth manual connection check by user	NFC tag data check	Bluetooth manual connection check by servicing	NFC one touch connection check with smartphone
1	BT module defect	NG	—	NG	NG
2	Knob (VOL) (SV) assy defect	OK	NG	OK	NG
3	NFC tag data writing failure	OK	NG	OK	NG
4	Smartphone	OK	OK	OK	NG

6. Version Check Method of the NFC Tag Data Writing Application for the Servicing

Check the version of the NFC tag data writing application (NFCtagWriter application) for the servicing according to the procedure below.

Procedure:

1. Start the NFCtagWriter application on the smartphone.
2. Tap the “ ≡ ” (menu button) or “ ⋮ ” of the screen of the smartphone, then tap the “About” that is displayed on the screen of the smartphone.



or



3. Check that version of the NFC tag data writing application for the servicing is displayed on the screen of the smartphone.



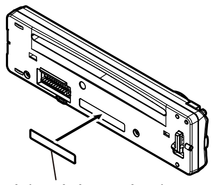
ver.0.9.0
The use is not allowed
(Use the ver.1.0.2 and above)



ver.1.0.2
The use is allowed

AFFIXING OF LABEL (SERIAL NUMBER)

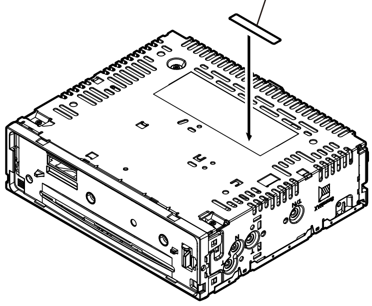
When the front panel (SV) (assy) is replaced, it is necessary to affix the label (serial number).
2 labels (serial number) are included with a new front panel (SV) (assy). Affix 1 label to the rear side of the front panel (SV) (assy). Affix the other one to the bottom side of main unit.
Be sure to perform this procedure, as Bluetooth will not operate correctly if the serial number of the front panel (SV) (assy) and main unit do not match.
Also, since the serial number has changed, print page 13 and hand the tear-off with the product to the customer when returning the product after repairs are complete.



label (serial number)

– Front panel (SV) (assy) rear view –

label (serial number)



– Main unit bottom view –

• Please cut out along the dotted line and use it.

Notice about the serial number change on the back side of the front panel:
The serial number on the back of the front panel has changed due to repairs.
For details, refer to the “Detaching the Front Panel” section of “Getting Started” in the instruction manual.

Notice about the serial number change on the back side of the front panel:
The serial number on the back of the front panel has changed due to repairs.
For details, refer to the “Detaching the Front Panel” section of “Getting Started” in the instruction manual.

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Notice about the serial number change on the back side of the front panel:
The serial number on the back of the front panel has changed due to repairs.
For details, refer to the “Detaching the Front Panel” section of “Getting Started” in the instruction manual.

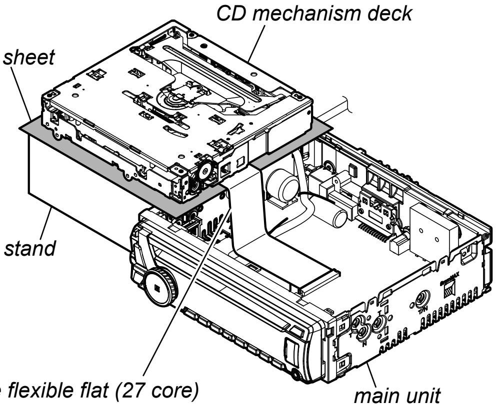
MEMO

SERVICE POSITION

Note: The length of cable flexible flat (27 core) has been changed from 150 mm to 80 mm in the midway of production.
When the length of cable flexible flat (27 core) is 80 mm, cannot performing the operation check in the state that is removed the CD mechanism deck from the main unit. When performing the operation check, use following flexible flat cable.

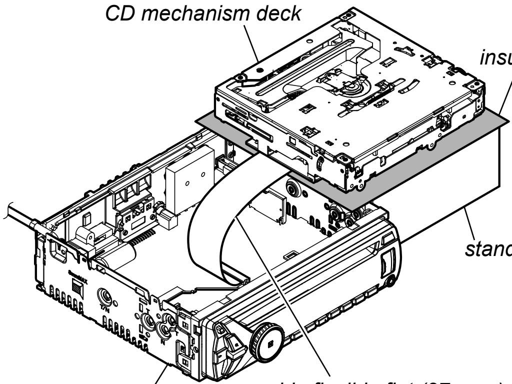
Part No.	Descrimination
1-846-819-31	CABLE FLEXIBLE FLAT (27 CORE) (Length: 150 mm)

OK



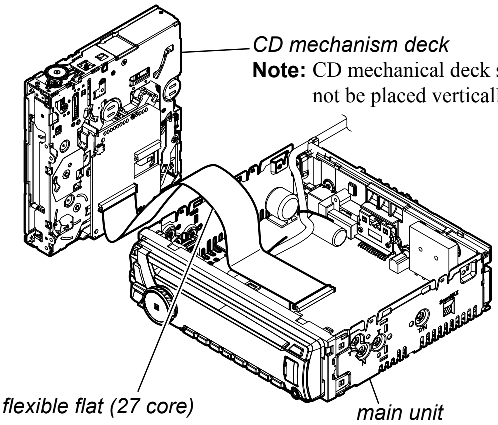
Note: Do not cable flexible flat (27 core) is damaged by the edge of the chassis.

OK



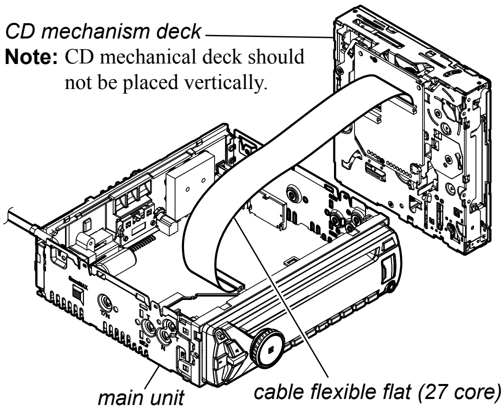
Note: Do not cable flexible flat (27 core) is damaged by the edge of the chassis.

NG



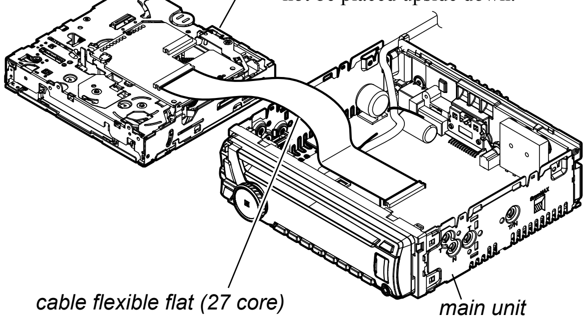
Note: CD mechanical deck should not be placed vertically.

NG



Note: CD mechanical deck should not be placed vertically.

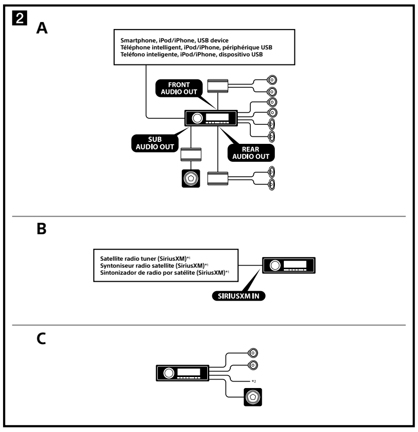
NG

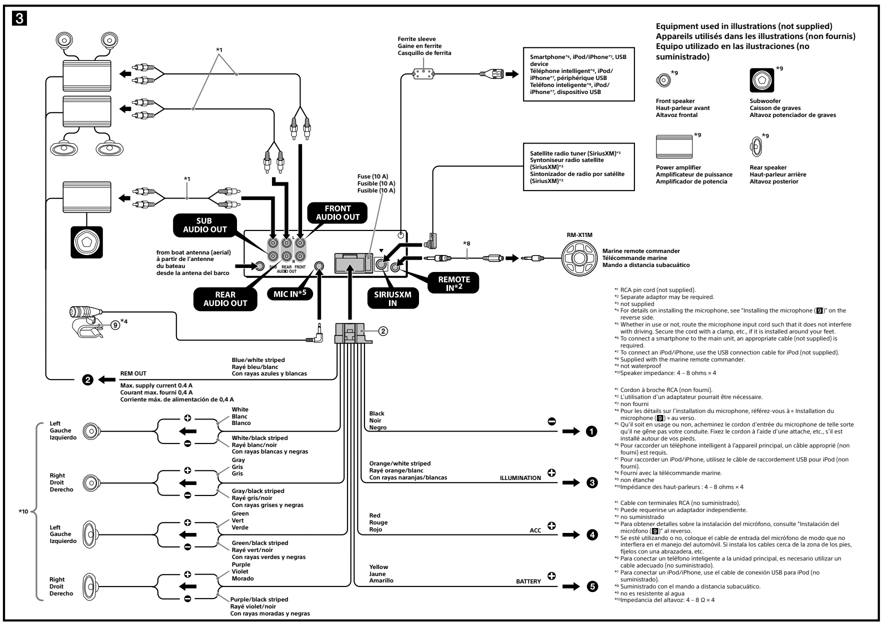


Note: CD mechanical deck should not be placed upside down.

SECTION 2
GENERAL

This section is extracted from instruction manual.





English

Cautions

Be sure to install this unit in the dashboard of the boat as the rear side of the unit becomes hot during use.

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the boat's ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Under the environment of potential water splash, Sony highly recommends to protect the unit with Waterproof Car Stereo Cover (not supplied).
  While an iPod or USB device is connected, the Waterproof Car Stereo Cover cannot be fully closed. Avoid splashing water on the unit.
- The use of optical instruments with this product will increase eye hazard.

Notes on the power supply lead (yellow)
- When connecting this unit in combination with other stereo components, the connected boat circuit's rating must be higher than the sum of each component's fuse.
- When no boat circuits are rated high enough, connect the unit directly to the battery.

Connection example (2)

Subwoofer Easy Connection (2-C)
You can use a subwoofer without a power amplifier when it is connected to a rear speaker cord.

*1 not supplied (2-B)
*2 Do not connect a speaker in this connection (2-C).

Notes
- Be sure to connect the ground (earth) lead before connecting the amplifier (2-A).
- The alarm will only sound if the built-in amplifier is used (2-A).
- Be sure to connect a 4 - 8 ohm subwoofer. Do not connect a speaker to the other rear speaker cord (2-C).

Connection diagram (3)

❶ To battery or distribution block ground
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster
Notes
- It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
- When your boat has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers and a power antenna (aerial). Connecting any other system may damage the unit.

❸ To a boat's illumination signal
Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.

❹ To the +12 V power terminal which is energized in the accessory position of the ignition switch
Notes
- If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
  Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.
- When your boat has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

❺ To the +12 V power terminal which is energized at all times
Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.

Notes on the control and power supply leads
- REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.
- When your boat has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the boat chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your boat if the unit shares a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Français

Mises en garde

Installez cet appareil sur le tableau de bord du bateau, car l'arrière de l'appareil chauffe en cours d'utilisation.

- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
- Évitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer les raccordements, coupez le contact du bateau pour éviter les courts-circuits.
- Raccordez les câbles d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres raccordements.
- **Rassemblez tous les câbles de mise à la masse en un point de masse commun.**
- Pour des raisons de sécurité, veillez à isoler avec du ruban isolant tout câble libre non raccordé.
- Si l'appareil risque d'être exposé à des éclaboussures d'eau, Sony recommande fortement de le protéger avec une housse imperméable pour chaîne stéréo de voiture (non fournie).
  Lorsqu'un iPod ou un périphérique USB est raccordé, la housse imperméable pour chaîne stéréo de voiture ne peut pas se fermer complètement. Évitez d'exposer l'appareil à des éclaboussures d'eau.
- L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux.

Remarques sur le câble d'alimentation (jaune)
- Lorsque cet appareil est raccordé à d'autres éléments stéréo, la valeur nominale du circuit du bateau raccordé doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit du bateau n'est assez puissant, raccordez directement l'appareil à la batterie.

Exemple de raccordement (2)

Raccordement facile d'un caisson de graves (2-C)
Vous pouvez utiliser un caisson de graves sans amplificateur de puissance lorsque vous effectuez le raccordement à un cordon de haut-parleur arrière.

*1 non fourni (2-B)
*2 Ne raccordez pas un haut-parleur avec cette connexion (2-C).

Remarques
- Raccordez d'abord le câble de mise à la masse avant de raccorder l'amplificateur (2-A).
- L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé (2-A).
- Assurez-vous de raccorder un caisson de graves de 4 - 8 ohms. Ne raccordez pas de haut-parleur à l'autre cordon de haut-parleur arrière (2-C).

Schéma de raccordement (3)

❶ Vers la batterie ou le répartiteur de terre
Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.

❷ Au câble de commande d'antenne électrique ou au câble d'alimentation de l'amplificateur d'antenne
Remarques
- Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
- Si votre bateau est équipé d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».

Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option
Ce raccordement s'applique uniquement aux amplificateurs et à une antenne électrique. Le branchement de tout autre système risque d'endommager l'appareil.

❸ Vers le connecteur du signal d'éclairage du bateau
Commencez par raccorder le câble de mise à la masse noir à la batterie ou au répartiteur de terre.

❹ À la borne d'alimentation +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
- S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
  Commencez par raccorder le câble de mise à la masse noir à la batterie ou au répartiteur de terre.
- Si votre bateau est équipé d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».

❺ À la borne d'alimentation +12 V qui est alimentée en permanence
Commencez par raccorder le câble de mise à la masse noir à la batterie ou au répartiteur de terre.

Remarques sur les câbles de commande et d'alimentation
- Le câble REM OUT (rayé bleu/blanc) fournit une alimentation de +12 V CC lorsque vous mettez l'appareil en marche.
- Lorsque votre bateau est équipé d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble REM OUT (rayé bleu/blanc) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

Raccordement pour la conservation de la mémoire
Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- Avant de raccorder les haut-parleurs, éteignez l'appareil.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleurs au châssis du bateau et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre bateau si l'appareil possède un câble négatif commun (–) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les câbles des haut-parleurs de l'appareil.

Español

Precauciones

Asegúrese de instalar la unidad en el tablero del barco, ya que la parte posterior de la unidad se calienta durante el uso.

- Esta unidad ha sido diseñada para alimentarse sólo con cc de 12 V de masa negativa.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p. ej. los rieles del asiento).
- Antes de realizar las conexiones, desactive el encendido del barco para evitar cortocircuitos.
- Conecte los cables de fuente de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- **Conecte todos los cables de conexión a masa a un punto común.**
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.
- En caso de riesgo accidental de salpicaduras de agua, Sony recomienda encarecidamente proteger la unidad con una Cubierta resistente al agua para el reproductor estéreo (no suministrado).
  Mientras el iPod o el dispositivo USB está conectado, la Cubierta resistente al agua para el reproductor estéreo no puede cerrarse por completo. Evite tirar agua sobre la unidad.
- El uso de instrumentos ópticos con este producto aumenta el riesgo de sufrir daños oculares.

Notas sobre el cable de fuente de alimentación (amarillo)
- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del barco debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del barco con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Ejemplo de conexiones (2)

Conexión sencilla del altavoz potenciador de graves (2-C)
Cuando el altavoz potenciador de graves está conectado al cable de altavoz posterior, puede usarlo sin un amplificador de potencia.

*1 no suministrado (2-B)
*2 No conecte un altavoz a esta conexión (2-C).

Notas
- Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador (2-A).
- La alarma sonará únicamente si se utiliza el amplificador incorporado (2-A).
- Asegúrese de conectar un altavoz potenciador de graves de 4 a 8 Ω. No conecte un altavoz al otro cable de altavoz posterior (2-C).

Diagrama de conexión (3)

❶ A la conexión a masa de la batería o del bloque de distribución
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de fuente de alimentación.

❷ Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena
Notas
- Si no se dispone de antena motorizada ni de amplificador de señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
- Si el barco tiene una antena de FM/AM incorporada en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".

A AMP REMOTE IN de un amplificador de potencia opcional
Esta conexión es sólo para amplificadores y una antena motorizada. La conexión de cualquier otro sistema puede dañar la unidad.

❸ Una señal de iluminación del bote
Asegúrese de conectar primero el cable de conexión a masa negro a la batería o a la toma a masa del bloque de distribución.

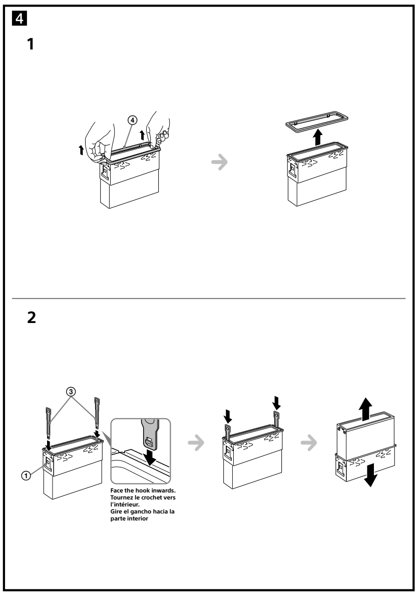
❹ Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido
Notas
- Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
  Asegúrese de conectar primero el cable de conexión a masa negro a la batería o a la toma a masa del bloque de distribución.
- Si el barco tiene una antena de FM/AM incorporada en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".

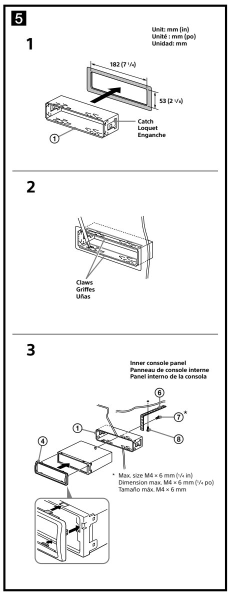
❺ Al terminal de alimentación de +12 V que recibe energía sin interrupción
Asegúrese de conectar primero el cable de conexión a masa negro a la batería o a la toma a masa del bloque de distribución.

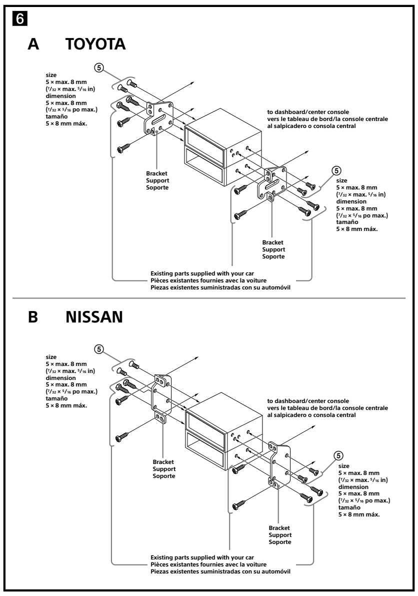
Notas sobre los cables de control y de fuente de alimentación
- El cable REM OUT (rayado azul y blanco) suministra cc de +12 V al encender la unidad.
- Si el barco tiene una antena FM/AM integrada en el cristal posterior o lateral, conecte el cable REM OUT (rayado azul y blanco) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de señal de la antena existente. Para obtener más detalles, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

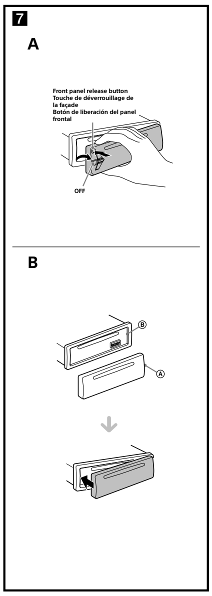
Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

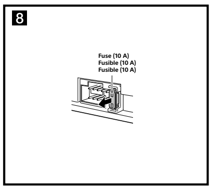
Notas sobre la conexión de los altavoces
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 Ω, con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del barco, ni conecte los terminales del altavoz derecho con los del izquierdo.
- No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallas de funcionamiento, no utilice los cables de altavoz incorporados instalados en el barco si la unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

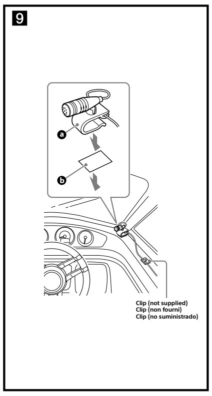












English

Precautions

- Choose the installation location carefully so that the unit will not interfere with normal boating or car driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Select carefully the mounting location to avoid internal damage by water entering the unit. Areas subject to water splashes should be avoided. The Waterproof Car Stereo Cover (not supplied) is recommended.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Removing the protection collar and the bracket (4)

Before installing the unit, remove the protection collar ④ and the bracket ① from the unit.

1 **Remove the protection collar ④.**
Pinch both edges of the protection collar ④, then pull it out.

2 **Remove the bracket ①.**
❶ Insert both release keys ③ together between the unit and the bracket ① until they click.
❷ Pull down the bracket ①, then pull up the unit to separate.

Mounting example (5)

Installation in the cutout hole on boat

Notes
- Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 2 mm (3/32 in). If the catches are straight or bent outwards, the unit will not be installed securely and may spring out (5-1).
- Bend these claws outward for a tight fit, if necessary (5-2).
- Make sure that the 4 catches on the protection collar ④ are properly engaged in the slots of the unit (5-3).

Mounting the unit in a Japanese car (6)

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Note
To prevent malfunction, install only with the supplied screws ⑤.

How to detach and attach the front panel (7)

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, be sure to press and hold OFF. Press the front panel release button, and pull it off towards you.

7-B To attach

Engage part Ⓐ of the front panel with part Ⓑ of the unit, as illustrated, and push the left side into position until it clicks.

Warning if your boat's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold OFF until the display disappears each time you turn the ignition off.

Fuse replacement (8)

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Installing the microphone (9)

Installing on the dashboard
To capture your voice during handsfree calling, you need to install the microphone ⑨.
The microphone is not waterproof. Select a location for the microphone which is dry and protected from water; for example, near the windshield.
Install a clip (not supplied) and adjust the length and position of the cord so that it does not obstruct your driving.

Cautions
- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gear stick. Be sure to keep it and other parts from obstructing your driving.
- If airbags or any other shock-absorbing equipment is in your boat, contact the store where you purchased this unit, or the boat dealer, before installation.

Notes
- Before attaching the double-sided tape ⓑ, clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.

Notes on the tuning step

- For how to set the tuning step, see the supplied Operating Instructions.
- If replacing the boat battery or changing the connections, the tuning step setting will be erased.

Français

Précautions

- Choisissez soigneusement l'emplacement d'installation pour que l'appareil ne gêne pas la conduite du bateau ou de la voiture.
- Évitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Sélectionnez soigneusement l'emplacement d'installation afin d'éviter que l'eau ne pénètre à l'intérieur de l'appareil et n'entraîne des problèmes de fonctionnement. Évitez les zones sujettes aux projections d'eau. L'utilisation de la housse imperméable pour chaîne stéréo de voiture (non fournie) est recommandée.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.

Réglage de l'angle de montage

Réglez l'inclinaison à un angle inférieur à 45°.

Retrait du tour de protection et du support (4)

Avant d'installer l'appareil, retirez le tour de protection ④ et le support ① de l'appareil.

1 **Retirez le tour de protection ④.**
Pincez les deux bords du tour de protection ④, puis sortez-le.

2 **Retirez le support ①.**
❶ Insérez les clés de déblocage ③ en même temps entre l'appareil et le support ① jusqu'au déclic.
❷ Tirez le support ① vers le bas, puis tirez sur l'appareil vers le haut pour les séparer.

Exemple de montage (5)

Installation dans l'orifice prédécoupé sur le bateau

Remarques
- Avant l'installation, assurez-vous que les loquets des deux côtés du support ① sont bien pliés de 2 mm (3/32 po) vers l'intérieur. Si les loquets sont droits ou pliés vers l'extérieur, l'appareil ne peut pas être fixé solidement et peut se détacher (5-1).
- Si nécessaire, pliez ces griffes vers l'extérieur pour assurer une prise correcte (5-2).
- Assurez-vous que les 4 loquets situés sur le tour de protection ④ sont correctement engagés dans les fentes de l'appareil (5-3).

Montage de l'appareil dans une voiture japonaise (6)

Cet appareil ne peut pas être installé dans certaines voitures japonaises. Consultez, dans ce cas, votre détaillant Sony.

Remarque
Pour éviter tout problème de fonctionnement, utilisez uniquement les vis ⑤ fournies pour le montage.

Retrait et fixation de la façade (7)

Avant d'installer l'appareil, retirez la façade.

7-A Pour la retirer

Avant de retirer la façade, n'oubliez pas de maintenir enfoncée la touche OFF. Appuyez sur la touche de déverrouillage de la façade, puis faites glisser la façade vers vous.

7-B Pour la fixer

Engagez la partie Ⓐ de la façade dans la partie Ⓑ de l'appareil, comme illustré, puis appuyez sur le côté gauche jusqu'au déclic indiquant que la façade est en position.

Avertissement si le contact de votre bateau ne comporte pas de position ACC

Veillez à régler la fonction Auto Off. Pour obtenir davantage d'informations, reportez-vous au mode d'emploi fourni.
L'appareil s'éteint complètement et automatiquement après le laps de temps choisi une fois l'appareil arrêté afin d'éviter que la batterie ne se décharge.
Si vous ne réglez pas la fonction Auto Off, appuyez sur la touche OFF et maintenez-la enfoncée jusqu'à ce que l'affichage disparaisse à chaque fois que vous coupez le contact.

Remplacement du fusible (8)

Lorsque vous remplacez le fusible, veillez à utiliser un fusible dont l'intensité, en ampères, correspond à la valeur indiquée sur le fusible usagé. Si le fusible grille, vérifiez le branchement de l'alimentation et remplacez le fusible. Si le nouveau fusible grille également, il est possible que l'appareil soit défectueux. Dans ce cas, consultez votre détaillant Sony le plus proche.

Installation du microphone (9)

Fixation sur le tableau de bord
Pour capturer votre voix durant les appels mains libres, vous devez installer le microphone ⑨.
Le microphone n'est pas étanche. Choisissez un endroit sec et à l'abri de l'eau pour le microphone; par exemple, près du pare-brise.
Installez un clip (non fourni) et ajustez la longueur et la position du cordon de façon à ce qu'il ne gêne pas la conduite.

Mises en garde
- N'exposez pas le microphone à des températures extrêmement élevées et à l'humidité.
- Veillez à ce que le cordon ne soit pas enroulé autour du volant ou du levier de vitesses. Ceci peut s'avérer extrêmement dangereux. Veillez à ce que le cordon et les autres pièces ne gênent pas votre conduite.
- Si un système de coussins de sécurité gonflables ou tout autre équipement absorbant les chocs est présent dans votre bateau, contactez le magasin où vous avez acheté cet appareil ou votre concessionnaire avant l'installation.

Remarques
- Avant de fixer l'adhésif double face ⓑ, nettoyez la surface du tableau de bord avec un chiffon sec.
- Réglez l'angle du microphone afin de le positionner correctement.

Remarques sur l'intervalle de syntonisation

- Pour savoir comment régler l'intervalle de syntonisation, consultez le mode d'emploi fourni.
- Si vous remplacez la batterie du bateau ou modifiez les raccordements, le réglage de l'intervalle de syntonisation sera effacé.

Español

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción del automóvil o del barco.
- Evite instalar la unidad donde pueda quedar expuesta a polvo, suciedad, vibraciones excesivas o altas temperaturas, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Seleccione cuidadosamente el lugar de montaje para evitar que el agua provoque daños internos. Deben evitarse las zonas expuestas a salpicaduras de agua. Se recomienda utilizar la cubierta resistente al agua para el reproductor estéreo para automóviles (no suministrada).
- Para realizar una instalación segura y firme, utilice solamente elementos de instalación suministrados.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

Extracción del marco de protección y del soporte (4)

Antes de instalar la unidad, retire el marco de protección ④ y el soporte ① de la misma.

1 **Retire el marco de protección ④.**
Apriete ambos bordes del marco de protección ④ y, a continuación, tire de él hacia fuera.

2 **Retire el soporte ①.**
❶ Inserte ambas llaves de liberación ③ entre la unidad y el soporte ① hasta que encajen.
❷ Presione el soporte ① y, a continuación, levante la unidad para separar ambos elementos.

Ejemplo de montaje (5)

Instalación en el orificio de corte del barco

Notas
- Antes de instalar la unidad, compruebe que los enganches de ambos lados del soporte ① estén doblados hacia adentro 2 mm. Si no lo están o están doblados hacia afuera, la unidad no se instalará correctamente y puede saltar (5-1).
- Si es necesario, doble las uñas hacia fuera para que encaje firmemente (5-2).
- Compruebe que los 4 enganches del marco de protección ④ estén bien fijados en las ranuras de la unidad (5-3).

Montaje de la unidad en un automóvil japonés (6)

Es posible que no pueda instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su distribuidor Sony.

Nota
Para evitar que se produzcan fallas de funcionamiento, realice la instalación solamente con los tornillos suministrados ⑤.

Forma de extraer e instalar el panel frontal (7)

Antes de instalar la unidad, extraiga el panel frontal.

7-A Para extraerlo

Antes de extraer el panel frontal, asegúrese de mantener presionado OFF. Presione el botón de liberación del panel frontal y extraiga el panel frontal hacia usted.

7-B Para instalarlo

Coloque la parte Ⓐ del panel frontal en la parte Ⓑ de la unidad, como se muestra en la ilustración, y después presione la parte izquierda hasta que encaje.

Advertencia: si el encendido del barco no dispone de una posición ACC

Asegúrese de ajustar la función de desconexión automática. Para obtener más información, consulte el manual de instrucciones suministrado.
La unidad se apagará completa y automáticamente en el tiempo establecido después de que se desconecte la unidad, lo que evita que se desgaste la batería.
Si no ha ajustado la función de desconexión automática, mantenga presionado OFF cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

Sustitución del fusible (8)

Al sustituir el fusible, asegúrese de utilizar uno cuyo amperaje coincida con el especificado en el original. Si el fusible se funde, verifique la conexión de alimentación y sustitúyalo. Si el fusible vuelve a fundirse después de sustituirlo, es posible que exista alguna falla de funcionamiento interno. En tal caso, consulte con el distribuidor Sony más cercano.

Instalación del micrófono (9)

Instalación en el salpicadero
Para capturar la voz durante llamadas con manos libres, debe instalar el micrófono ⑨.
El micrófono no es resistente al agua. Seleccione un lugar para el micrófono que esté seco y protegido del agua, por ejemplo, cerca del parabrisas.
Instale un clip (no suministrado) y ajuste la longitud y la posición del cable de modo que no obstruya la conducción.

Precauciones
- Mantenga el micrófono alejado de lugares con humedad y temperaturas muy altas.
- Que el cable se enrolle alrededor del volante o de la palanca de cambios es extremadamente peligroso. Asegúrese de impedir que el cable y otros componentes obstruyan la conducción.
- Si el bote dispone de airbags u otros dispositivos de amortiguación de impactos, póngase en contacto con el establecimiento donde ha adquirido esta unidad o con el distribuidor de embarcaciones antes de llevar a cabo la instalación.

Notas
- Antes de colocar la cinta adhesiva de doble cara ⓑ, limpie la superficie del tablero con un paño seco.
- Ajuste el ángulo del micrófono en la posición adecuada.

Notas acerca de la sintonización

- Para obtener información sobre cómo ajustar la sintonización, consulte el manual de instrucciones suministrado.
- Si se reemplaza la batería del barco o se cambian las conexiones, la configuración de la sintonización se borrará.

SECTION 3
DISASSEMBLY

- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

SET

↓

FRONT PANEL SECTION
Note: Illustration of disassembly is omitted.

↓

3-2. MINI FUSE (BLADE TYPE) (10A/32V) (FU1), COVER BLOCK
(Page 18)

↓

3-3. CD MECHANISM DECK (MG-101CF-188)
(Page 19)

↓

3-4. SUB PANEL COMPLETE ASSY
(Page 20)

↓

3-5. CONNECTION CABLE (AUTOMOBILE) (⭠) (CNC1)
(Page 20)

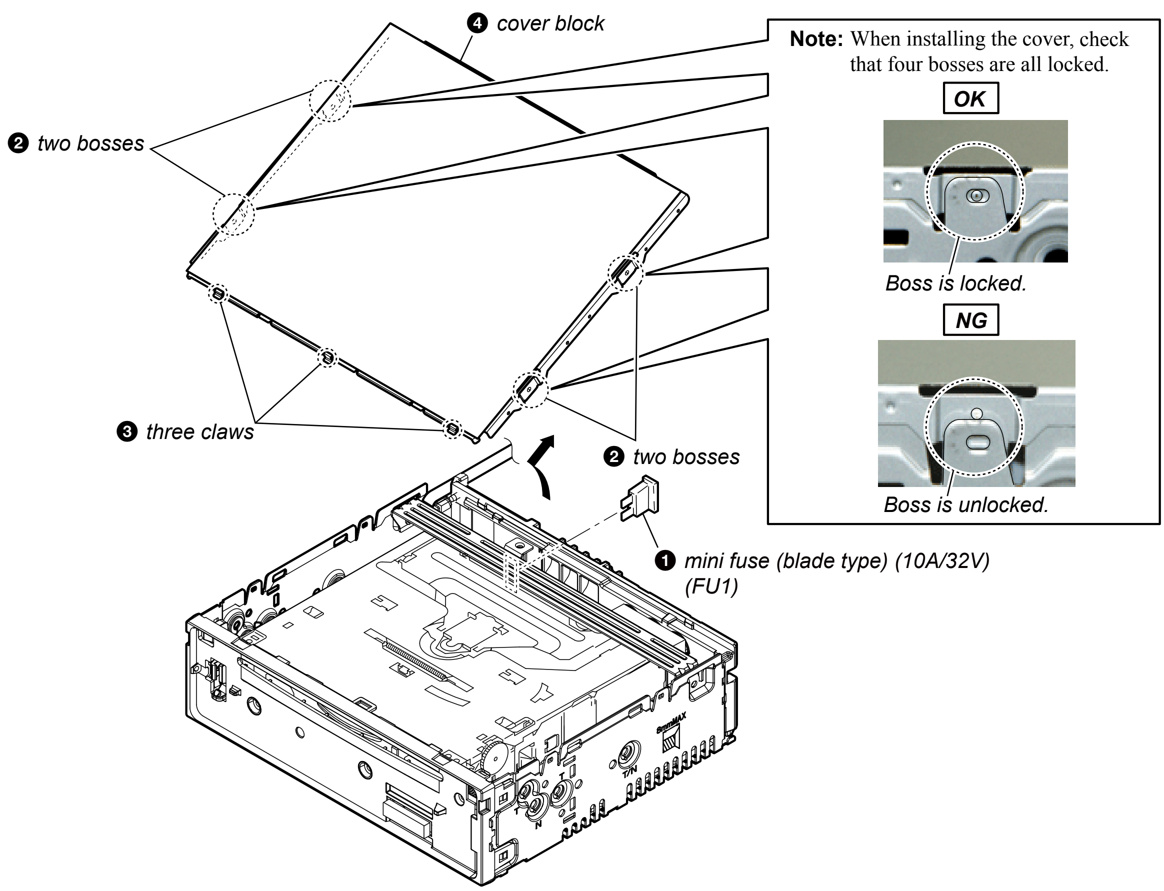
↓

3-6. MAIN BOARD
(Page 21)

3-7. ANTENNA BT (BT1) (from 3-4)
(Page 21)

Note: Follow the disassembly procedure in the numerical order given.

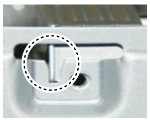
3-2. MINI FUSE (BLADE TYPE) (10A/32V) (FU1), COVER BLOCK

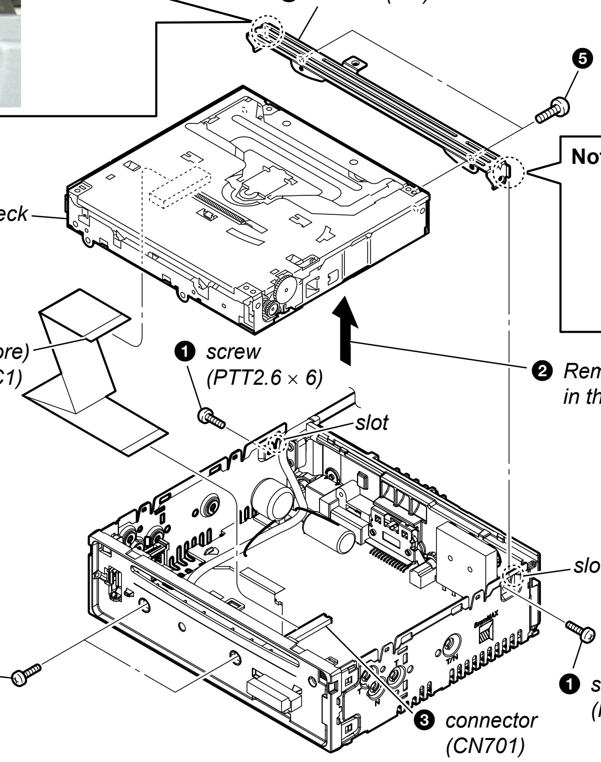


3-3. CD MECHANISM DECK (MG-101CF-188)

Note 1: The service manual of the mechanism deck, used in this model has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

Note 2: When installing the CD mechanism block, align the rib and the slot.



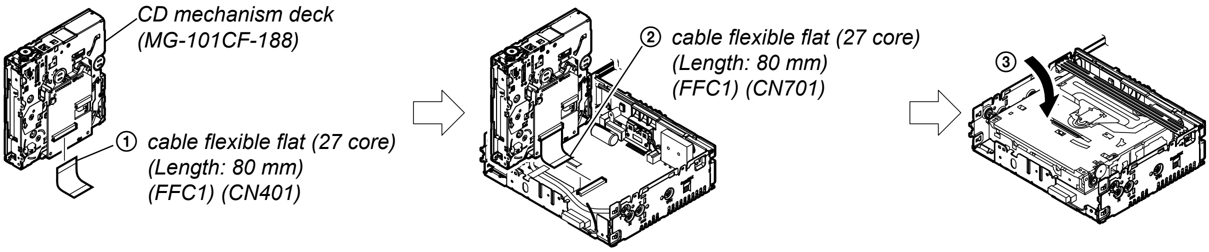


Note 2: When installing the CD mechanism block, align the rib and the slot.



• How to install the CD mechanism deck

Note 4: The length of cable flexible flat (27 core) (FFC1) has been changed from 150 mm to 80 mm in the midway of production.
When the length of cable flexible flat (27 core) (FFC1) is 80 mm, install the CD mechanism deck in the following procedures.



Note 3: When installing the cable flexible flat (27 core) (FFC1), insert straight to the connector and lock a connector completely.
No slanting after insertion.

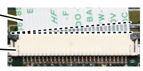
OK
Insert is straight to the interior.
cable flexible flat (27 core) (FFC1)
connector



NG
Connector is unlock.
cable flexible flat (27 core) (FFC1)
connector



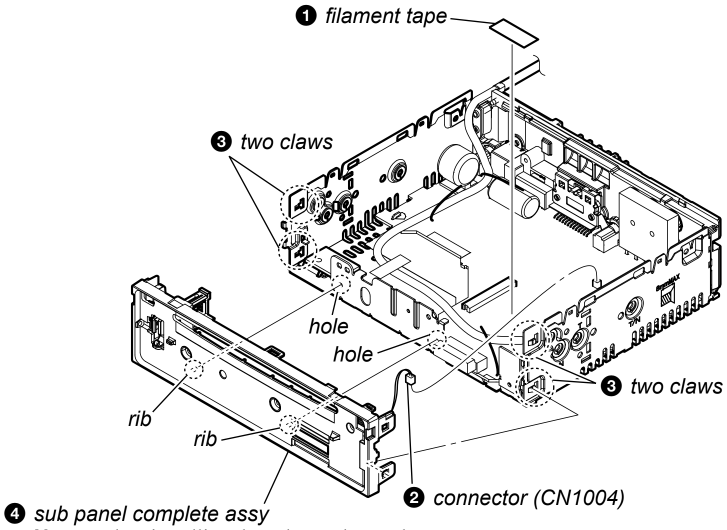
NG
Insert is incline
cable flexible flat (27 core) (FFC1)
connector



NG
Insert is shallow
cable flexible flat (27 core) (FFC1)
connector

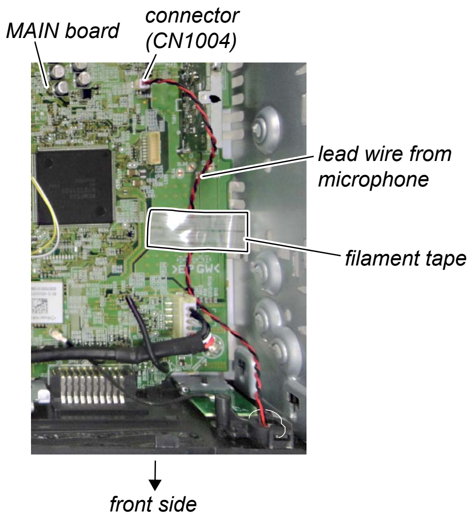


3-4. SUB PANEL COMPLETE ASSY



Note: When installing the sub panel complete assy, align two ribs and two holes.

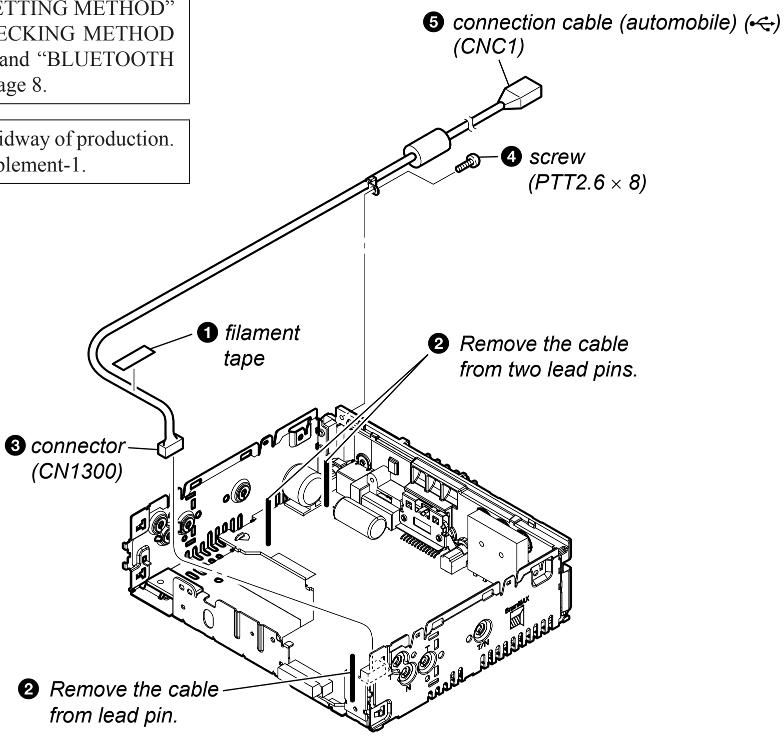
• Wire setting



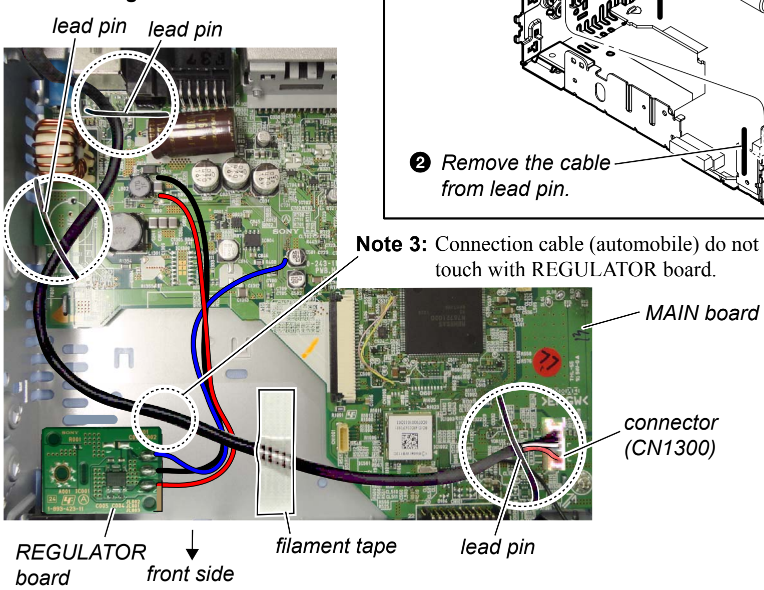
3-5. CONNECTION CABLE (AUTOMOBILE) (⭠) (CNC1)

Note 1: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to “DESTINATION SETTING METHOD” on page 4, “BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE” on page 7 and “BLUETOOTH INFORMATION WRITING METHOD” on page 8.

Note 2: REGULATOR board has been deleted in the midway of production. For details, please refer to service manual supplement-1.

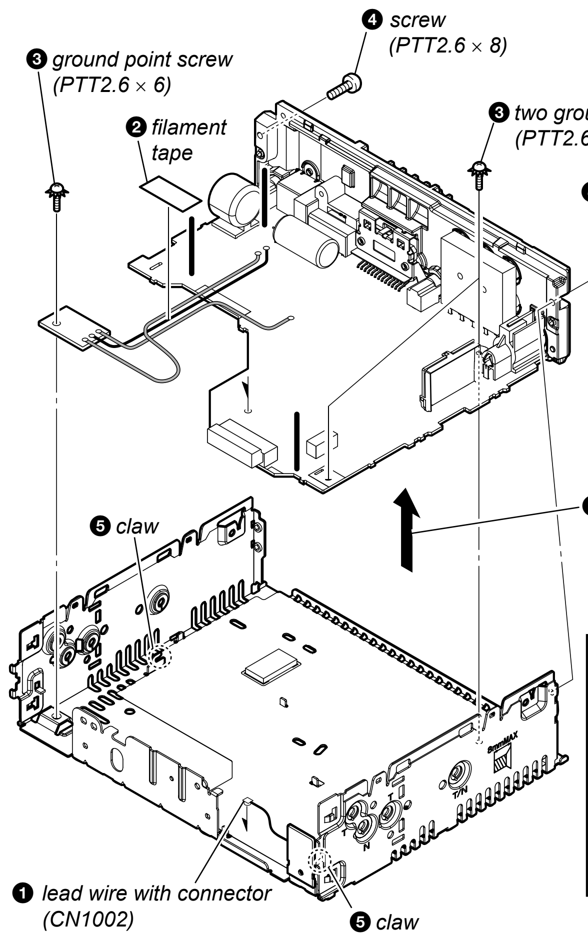


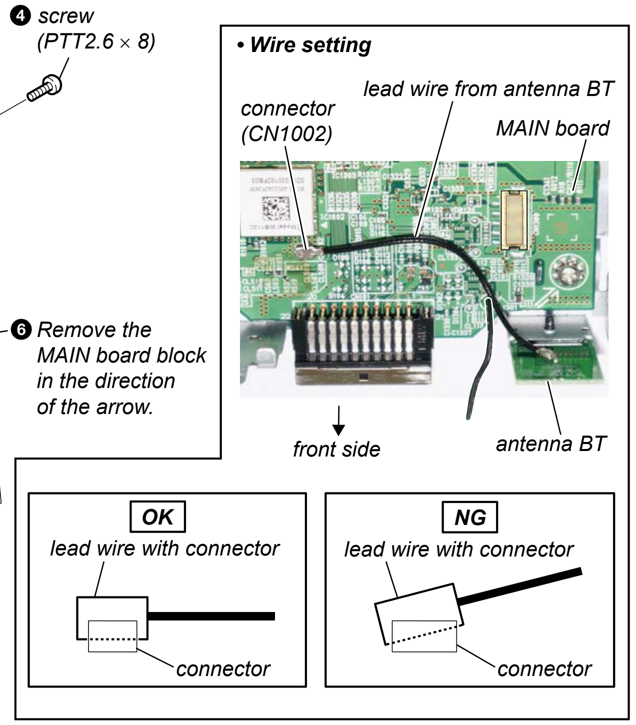
• Wire setting

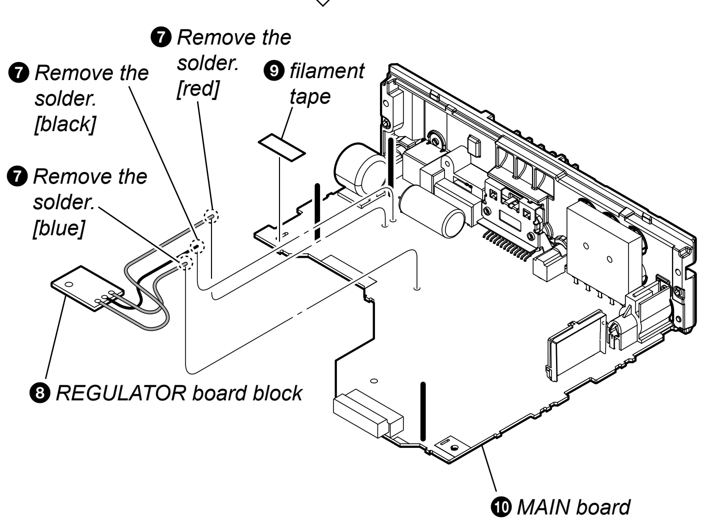


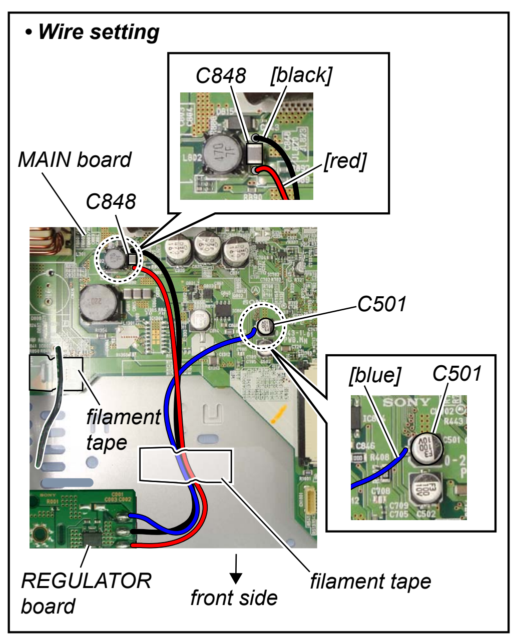
Note 3: Connection cable (automobile) do not touch with REGULATOR board.

3-6. MAIN BOARD



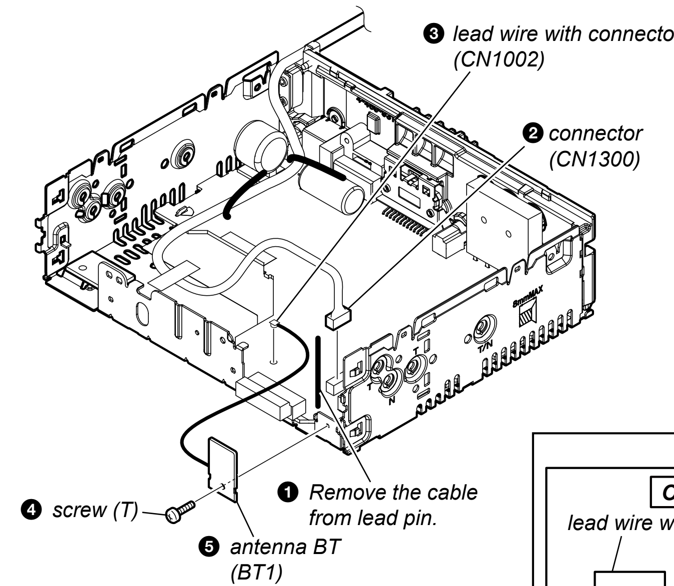


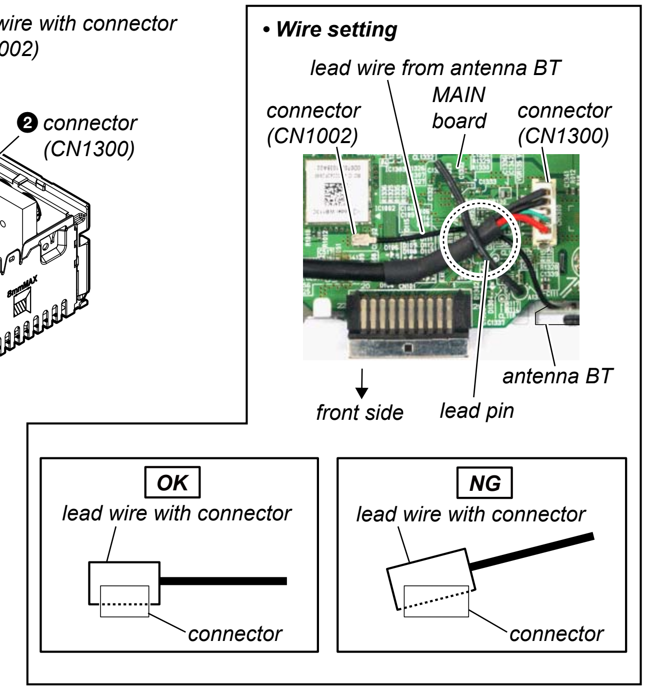




Note: REGULATOR board has been deleted in the midway of production.
For details, please refer to service manual supplement-1.

3-7. ANTENNA BT (BT1)





SECTION 4
TEST MODE

SETTING THE TEST MODE

Setting method:

1. In the state of source off (the clock is displayed), enter the test mode by pressing the buttons in order of the [⮌ 4] ⟶ [MIC 5] ⟶ [▼ ALBUM 1] (press only the [▼ ALBUM 1] button for two seconds).
2. It is set to the test mode, and all segments of the liquid crystal display light.

Releasing method:

Press the [⏻ OFF SRC] button for 1 second.

MICROPHONE AUDIO LOOPBACK

To confirm the state of the external microphone used when a handsfree function is used, the microphone audio is output from the speaker.
The breakdown judgment of the microphone can be done without connecting H/F with the cellular phone.

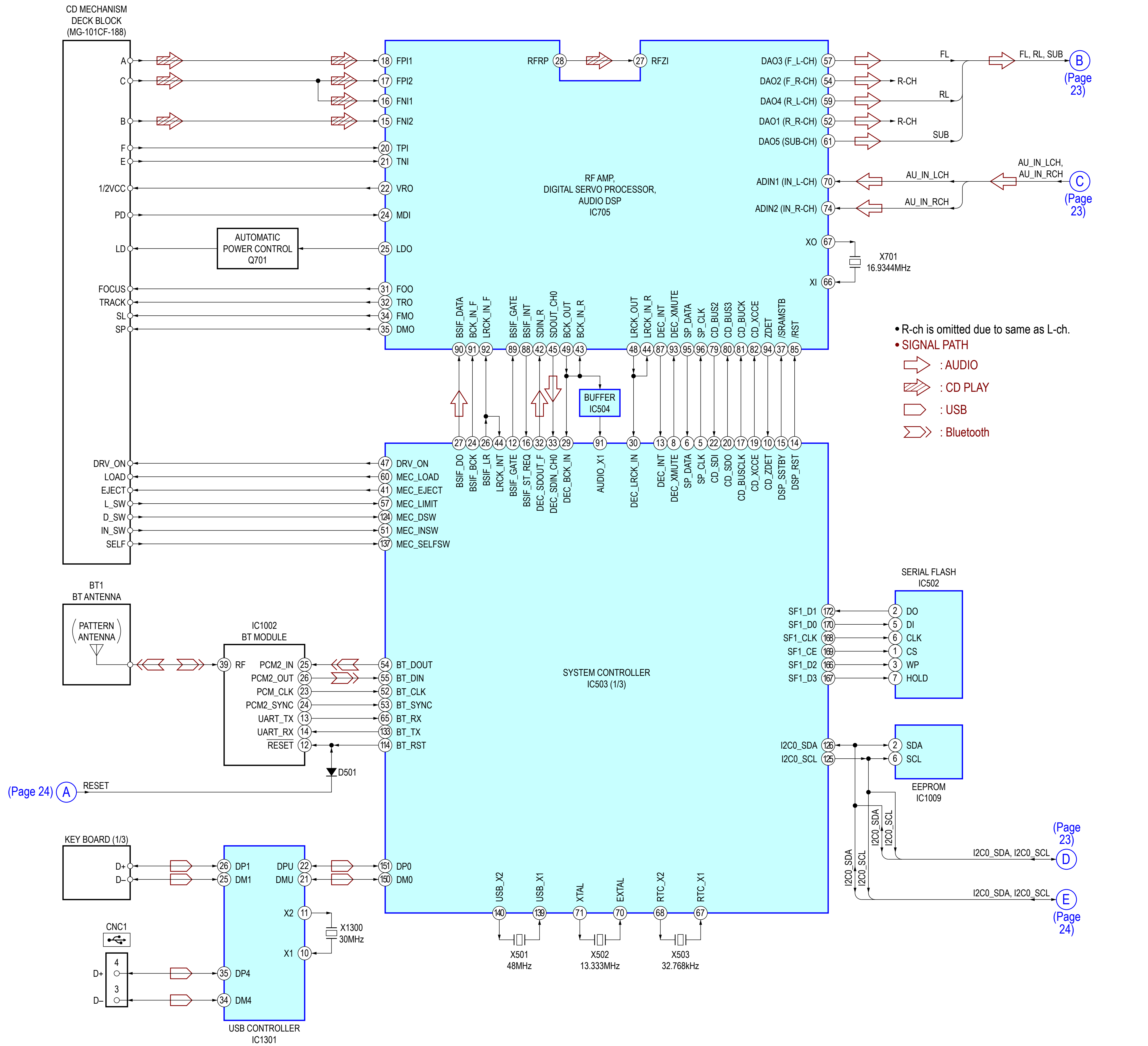
Procedure:

1. Enter the test mode.
2. Press the [⏻ OFF SRC] button to select the Bluetooth Phone function.
3. On/off of the microphone audio loopback function changes whenever the [ALBUM ▲ 2] button is pressed ("0" is displayed on the liquid crystal display).

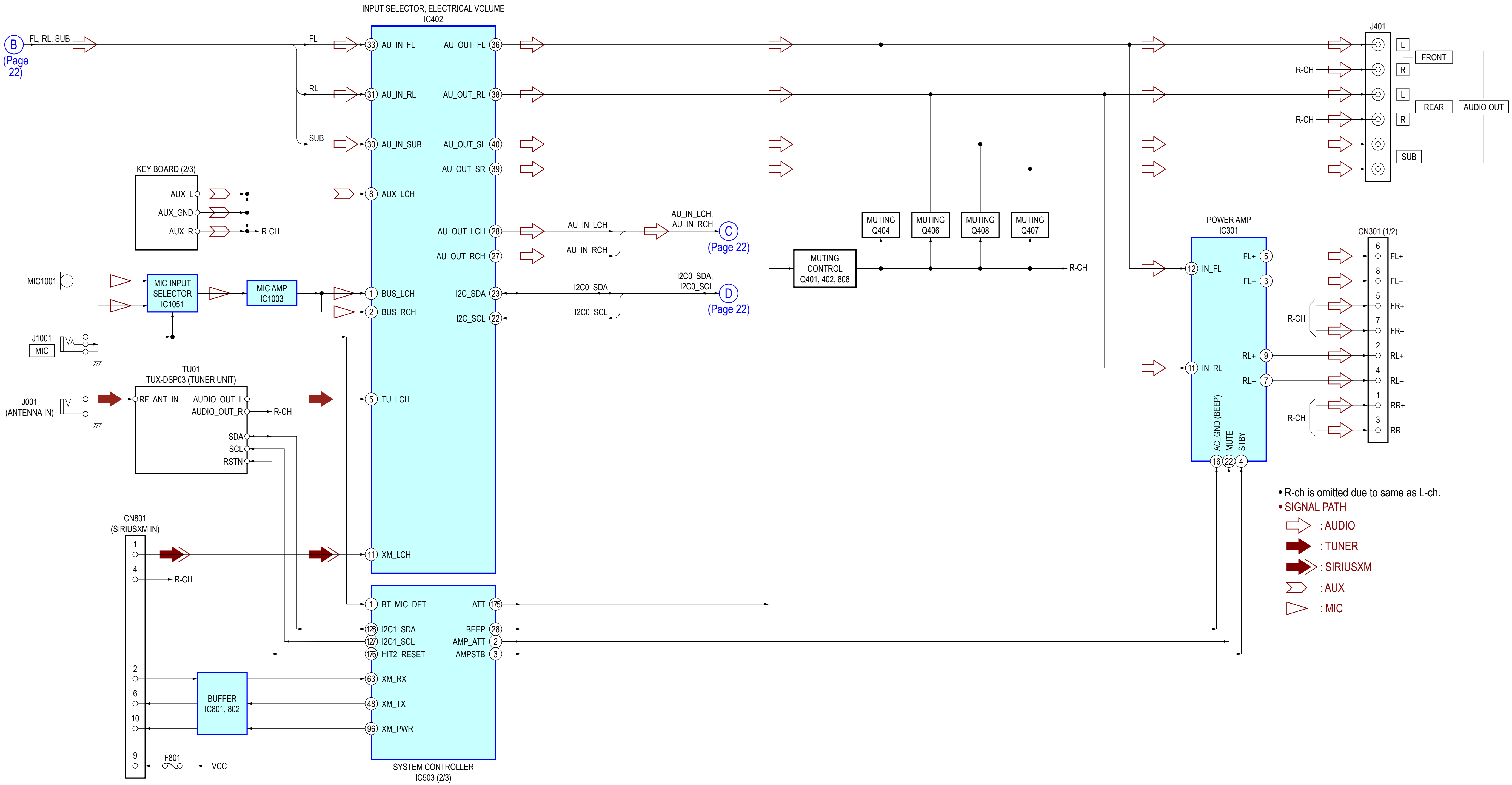
LOOPBACK	0
ON	Lit
OFF	None

SECTION 5
DIAGRAMS

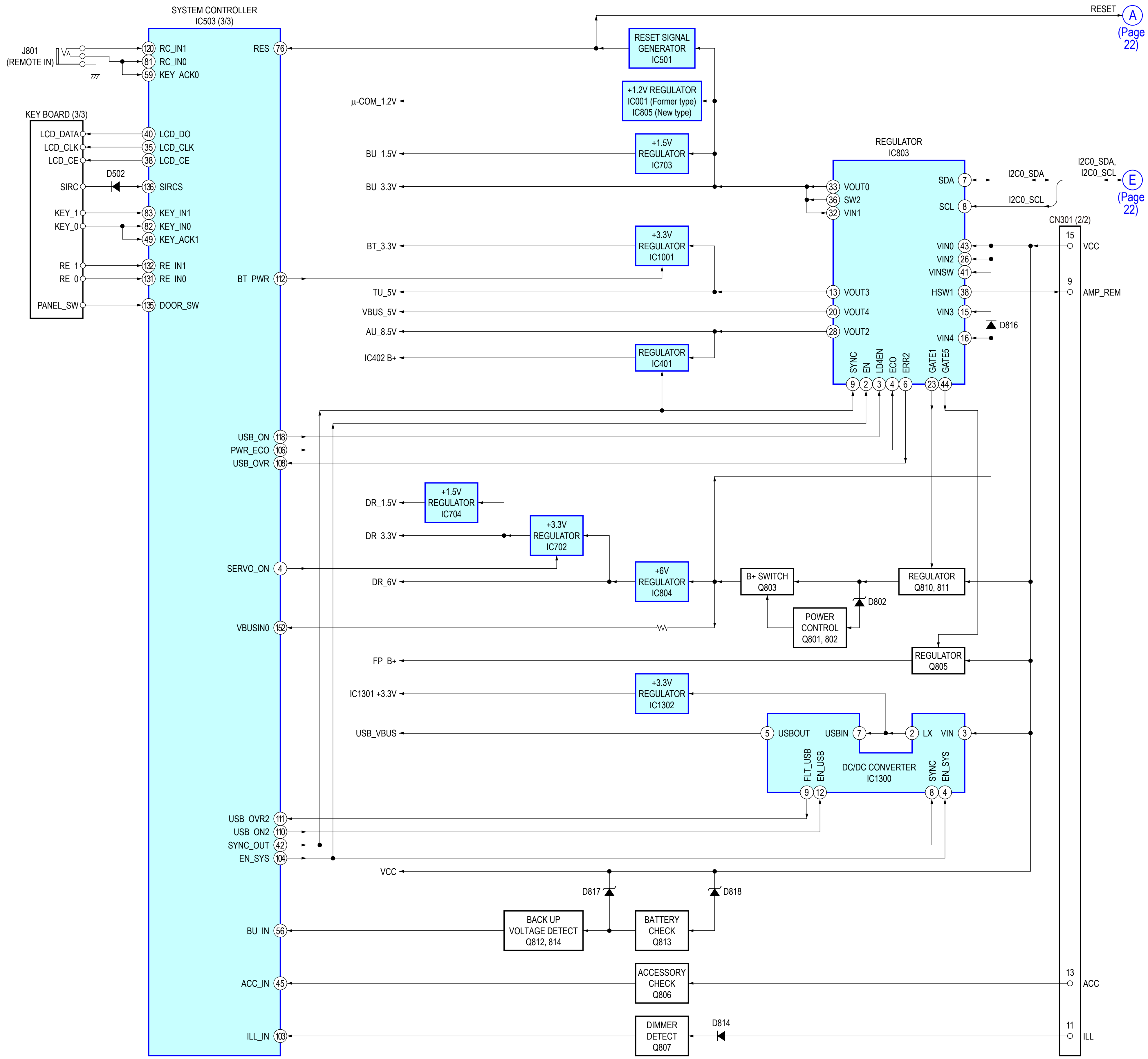
5-1. BLOCK DIAGRAM - SERVO/BT/USB Section -



5-2. BLOCK DIAGRAM - MAIN Section -



5-3. BLOCK DIAGRAM - PANEL/POWER SUPPLY Section -



Note: Refer to "NEW/FORMER DISCRIMINATION" on page 1 on service manual supplement-1 for how to distinguish New/Former types.

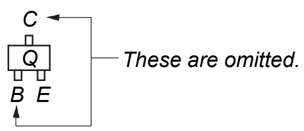
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.
Note:
- o——— : Parts extracted from the component side.
- ——— : Parts extracted from the conductor side.
- △ : Internal component.
- (green) : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

For Schematic Diagrams.
Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭ : Panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

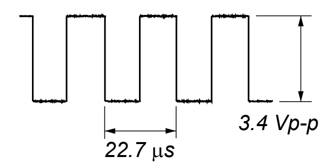
- ▬ : B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM)
  ( ): CD PLAY
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : AUDIO
  : TUNER
  : SIRIUS/XM
  : CD PLAY
  : USB
  : AUX
  : Bluetooth
  : MIC

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

- **Waveforms**

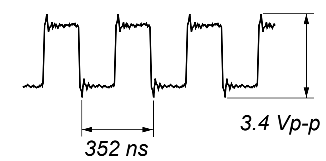
– MAIN Board –

① IC705 (48) (LRCK_OUT)



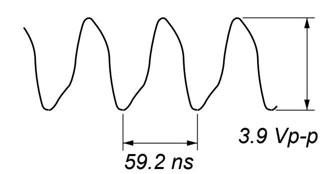
1 V/DIV, 10 μs/DIV

② IC705 (49) (BCK_OUT)



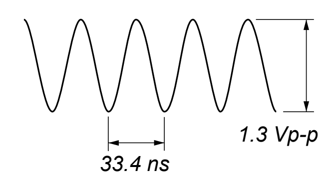
1 V/DIV, 200 ns/DIV

③ IC705 (67) (XO)



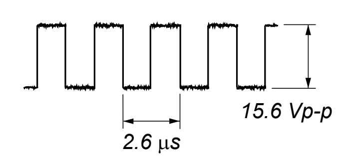
1 V/DIV, 20 ns/DIV

④ IC1301 (11) (X2)



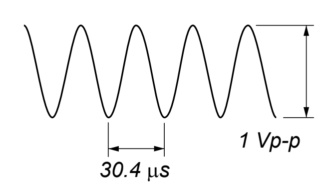
500 mV/DIV, 20 ns/DIV

⑤ IC1300 (1) (BST)



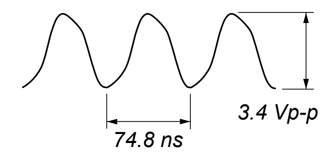
5 V/DIV, 2 μs/DIV

⑥ IC503 (68) (RTC_X2)



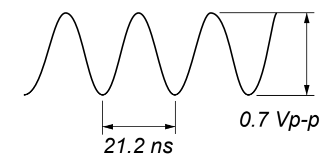
500 mV/DIV, 20 μs/DIV

⑦ IC503 (71) (XTAL)



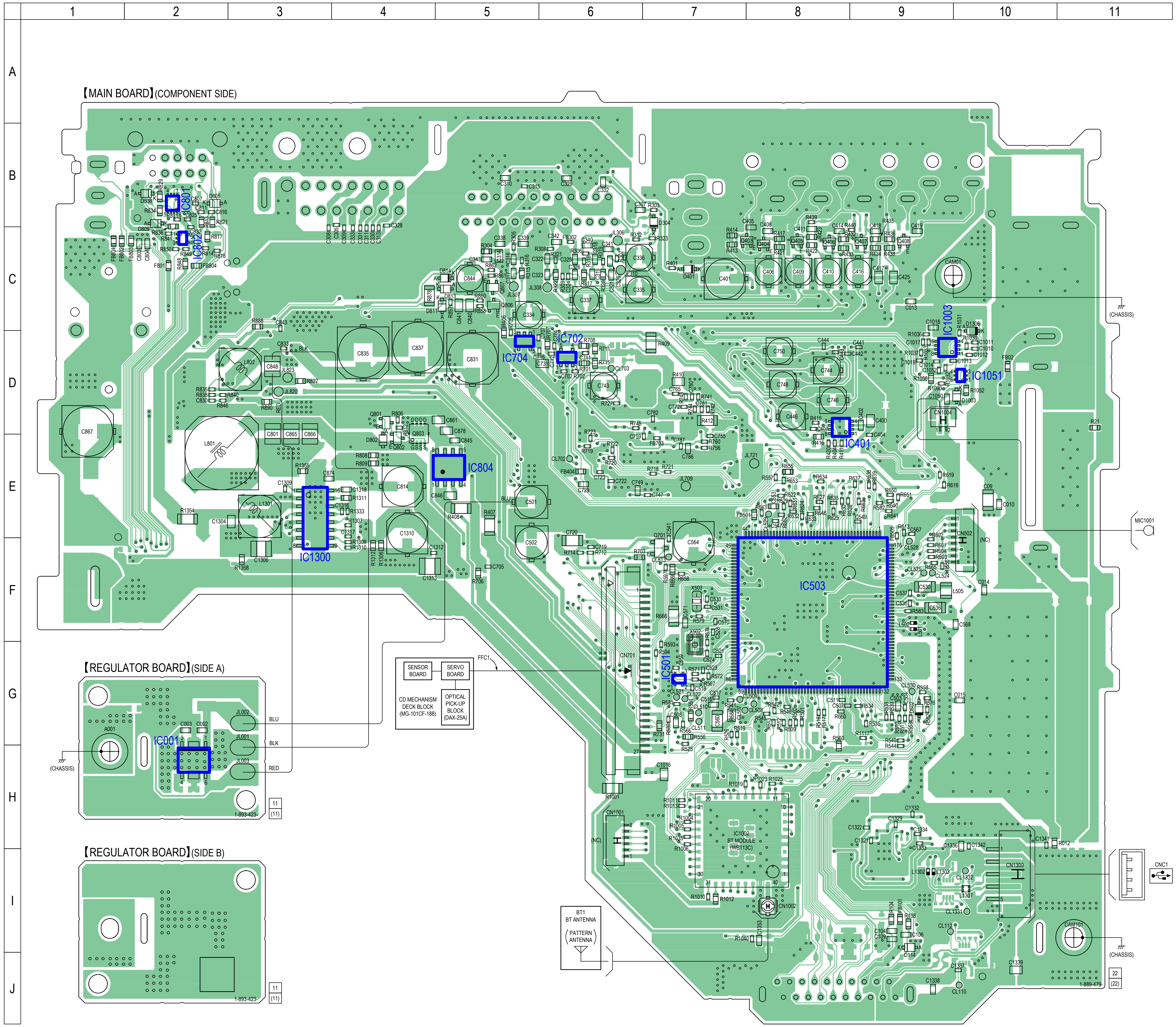
1 V/DIV, 20 ns/DIV

⑧ IC503 (140) (USB_X2)



200 mV/DIV, 10 ns/DIV

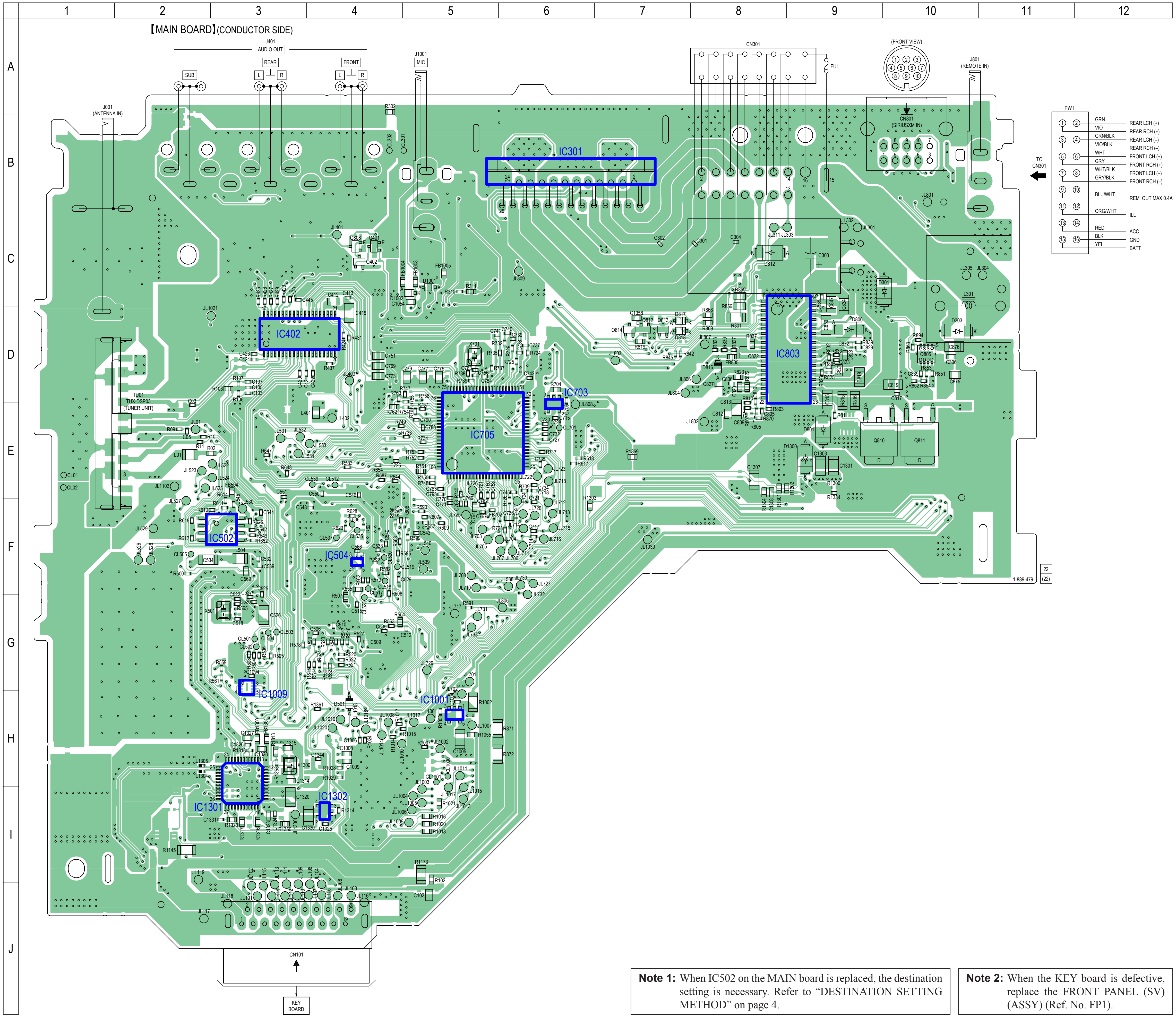
5-4. PRINTED WIRING BOARDS - MAIN Section (1/2) - • : Uses unleaded solder.



Note 1: IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

5-5. PRINTED WIRING BOARDS - MAIN Section (2/2) - • : Uses unleaded solder.

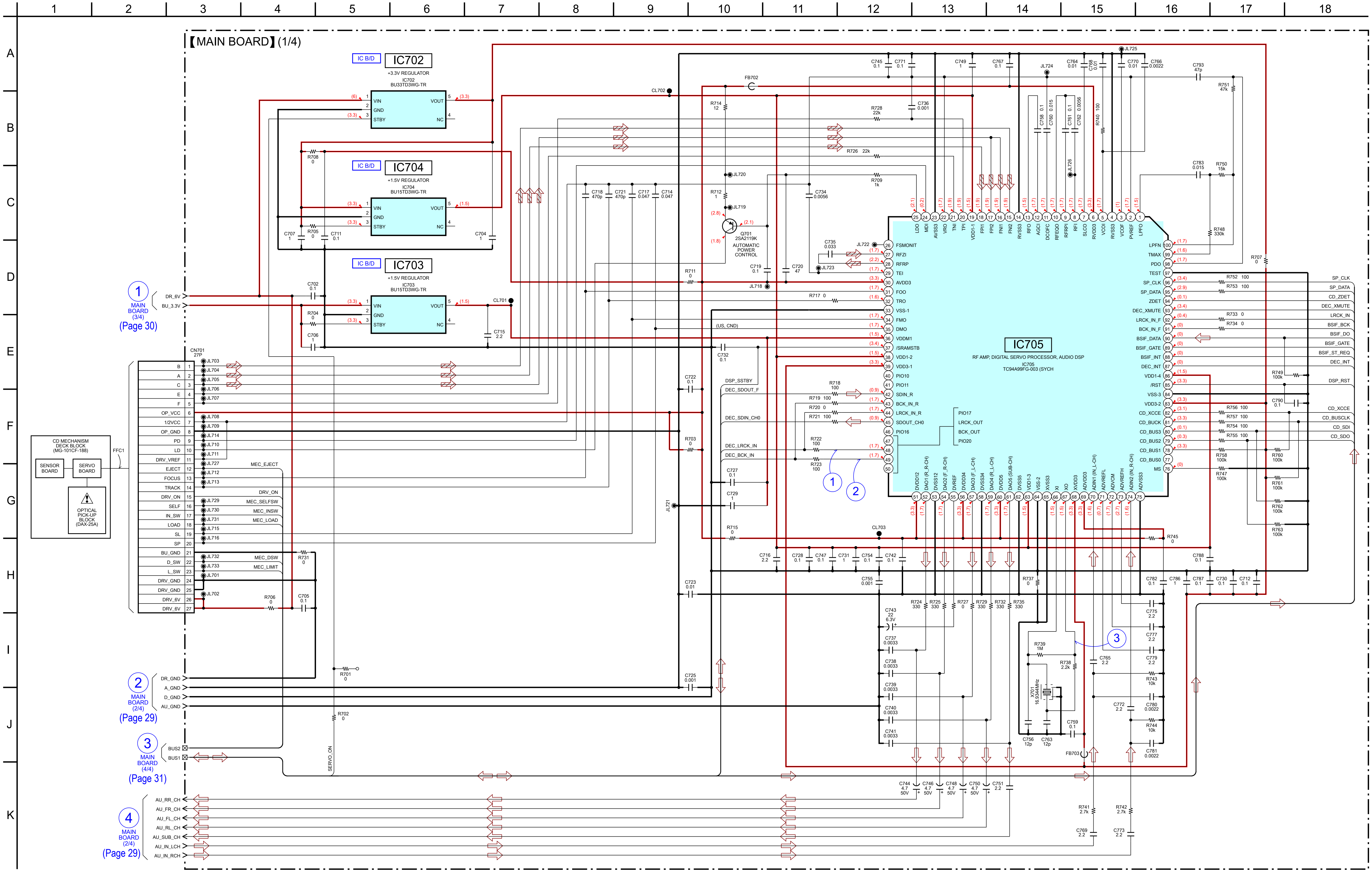


Note 1: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4.

Note 2: When the KEY board is defective, replace the FRONT PANEL (SV) (ASSY) (Ref. No. FP1).

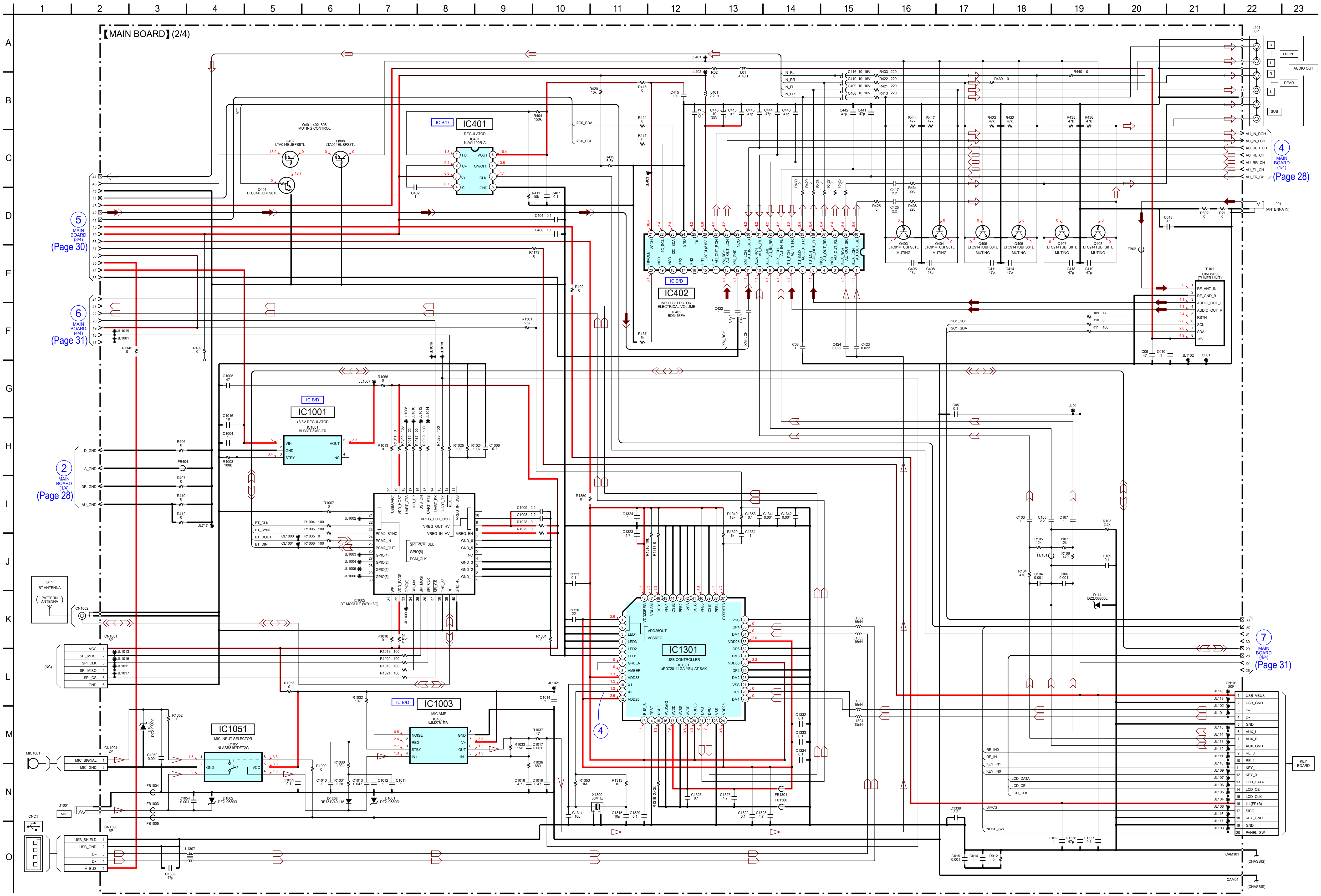
5-6. SCHEMATIC DIAGRAM - MAIN Section (1/4) -

• See page 25 for Waveforms. • See page 32 for IC Block Diagrams. • See page 35 for IC Pin Function Description.



Note: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

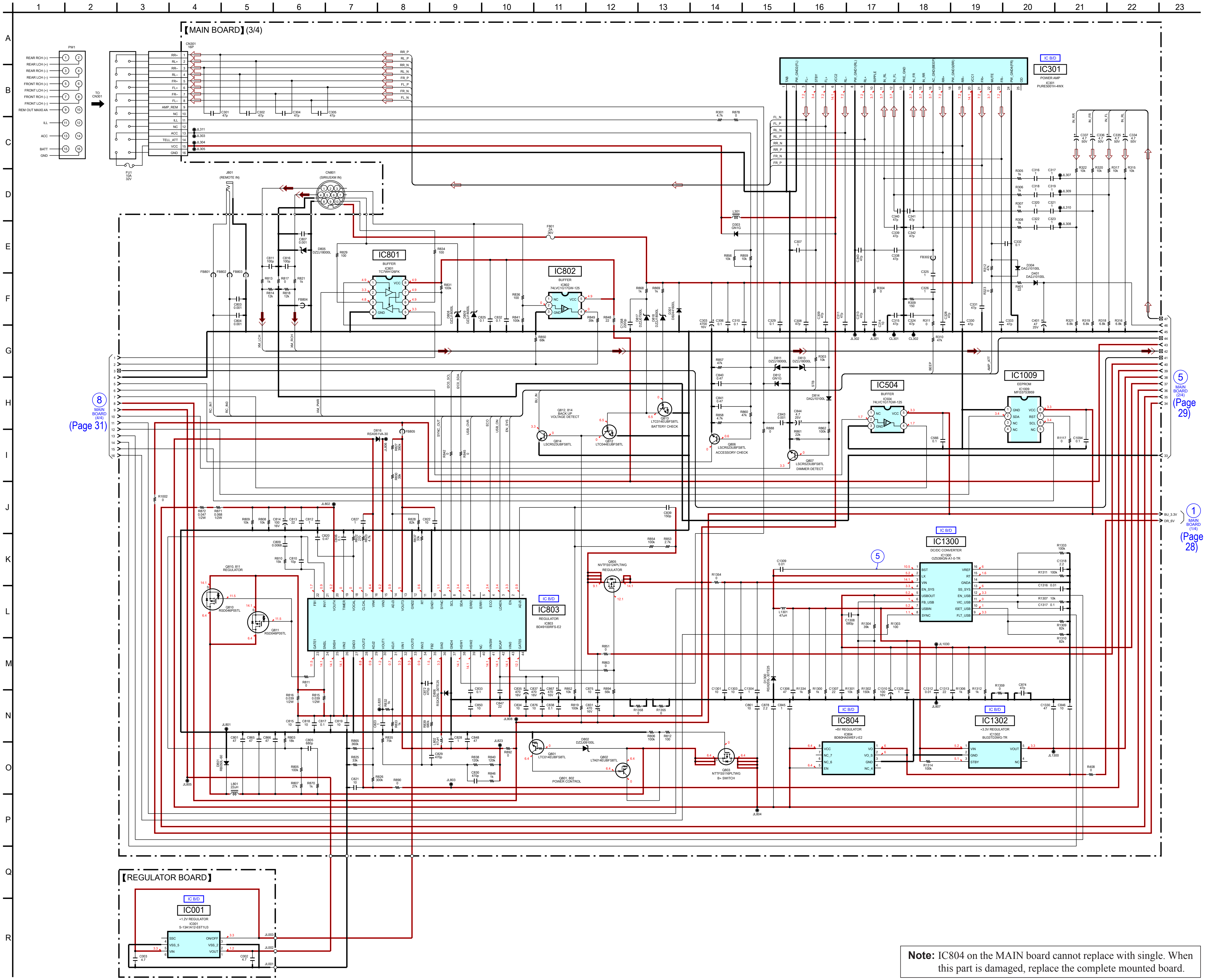
5-7. SCHEMATIC DIAGRAM - MAIN Section (2/4) - • See page 25 for Waveforms. • See page 32 for IC Block Diagrams. • See page 35 for IC Pin Function Description.



Note 1: IC1002 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

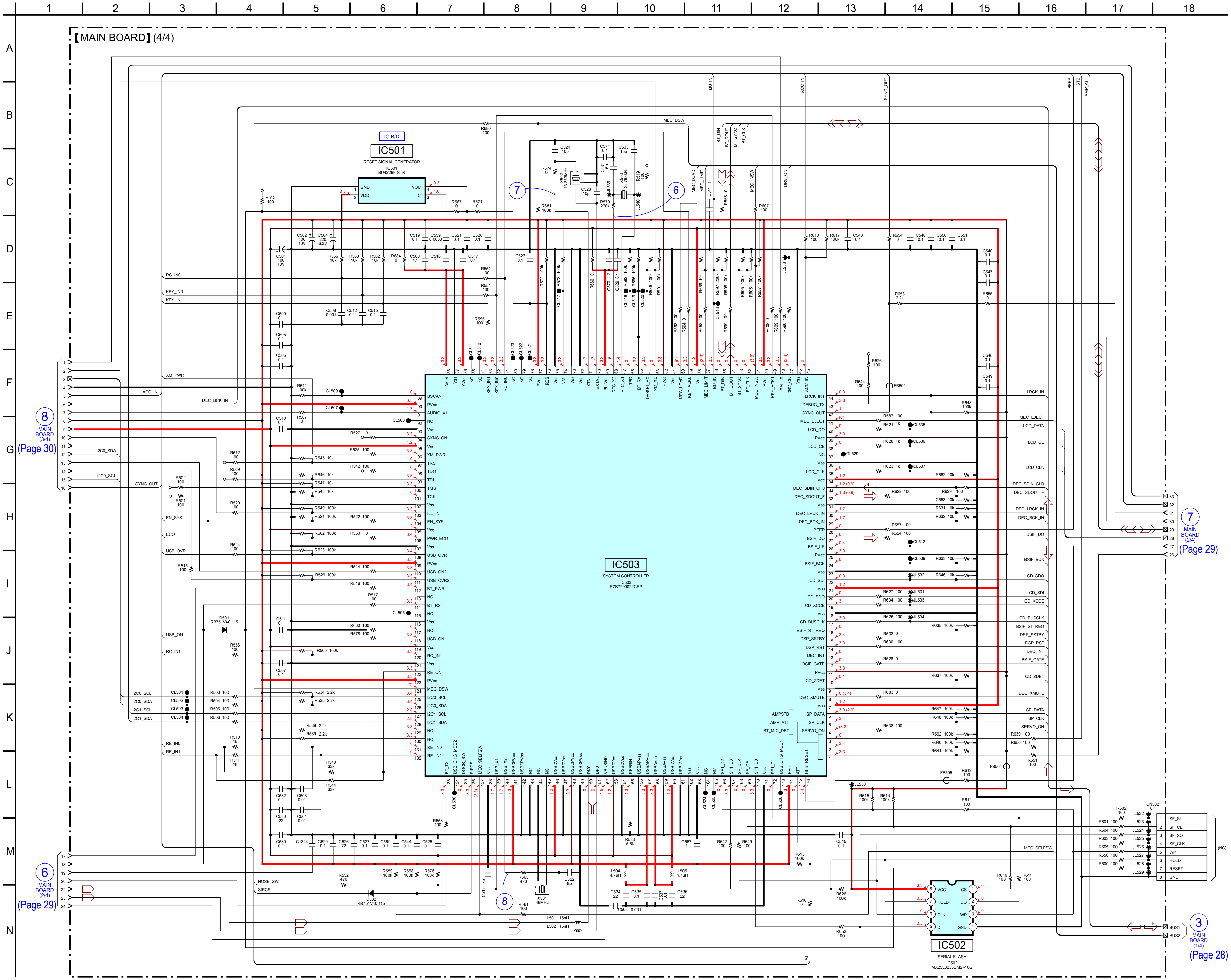
Note 2: When the KEY board is defective, replace the FRONT PANEL (SV) (ASSY) (Ref. No. FP1).

5-8. SCHEMATIC DIAGRAM - MAIN Section (3/4) - • See page 25 for Waveforms. • See page 32 for IC Block Diagrams.



Note: IC804 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

5-9. SCHEMATIC DIAGRAM - MAIN Section (4/4) - • See page 25 for Waveforms. • See page 32 for IC Block Diagrams. • See page 35 for IC Pin Function Description.

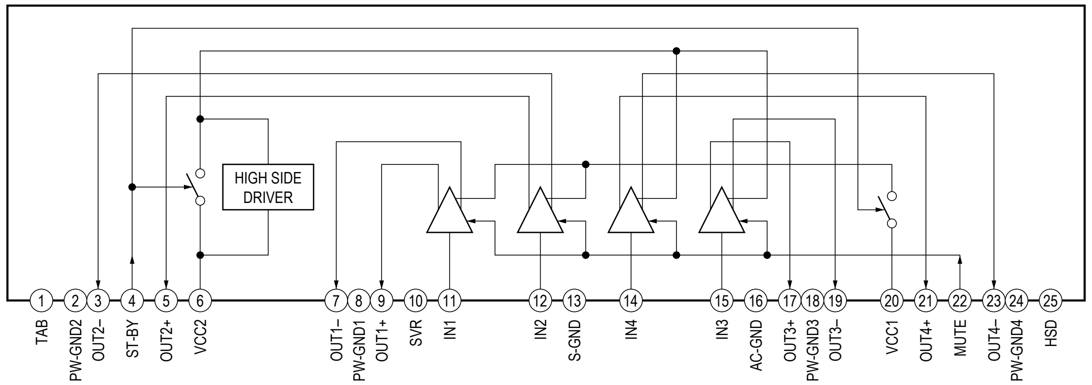


Note: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4.

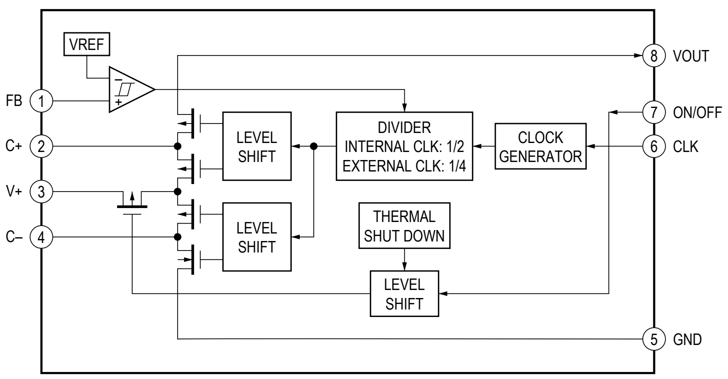
- **IC Block Diagrams**

– MAIN Board –

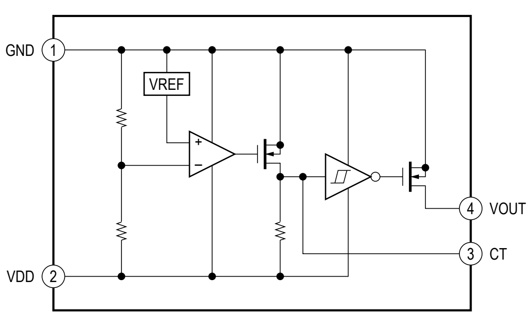
IC301 PURE5001H-4WX



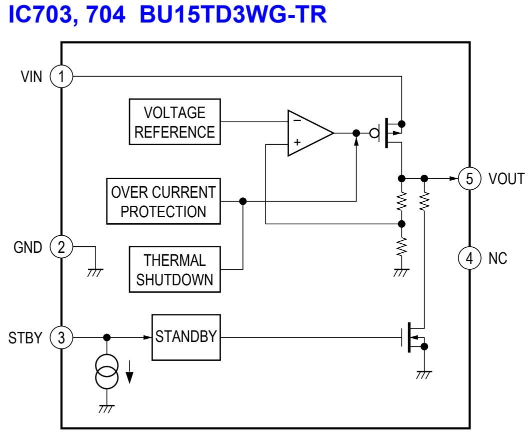
IC401 NJW4190R-A (TE2)



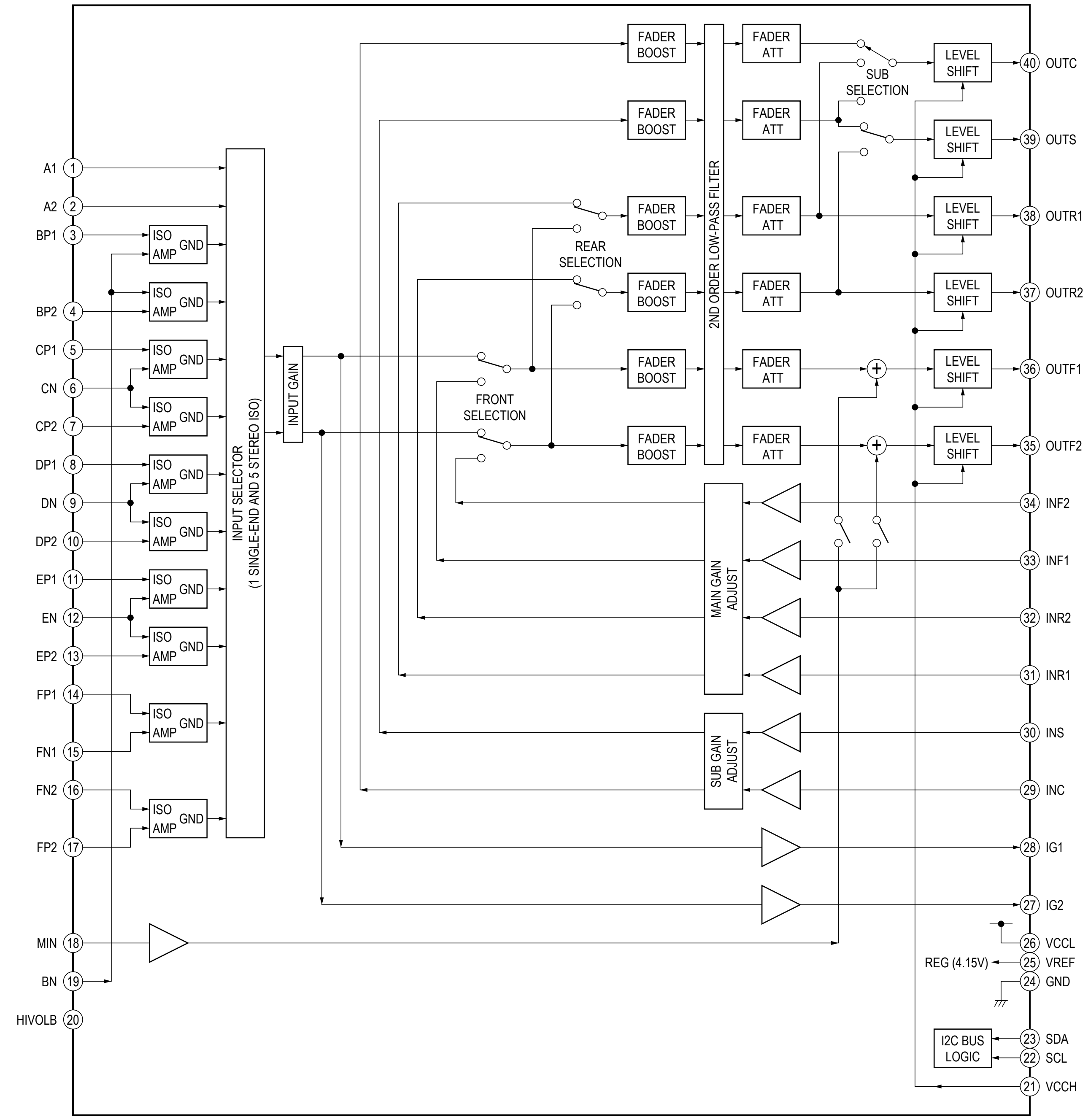
IC501 BU4228F-STR



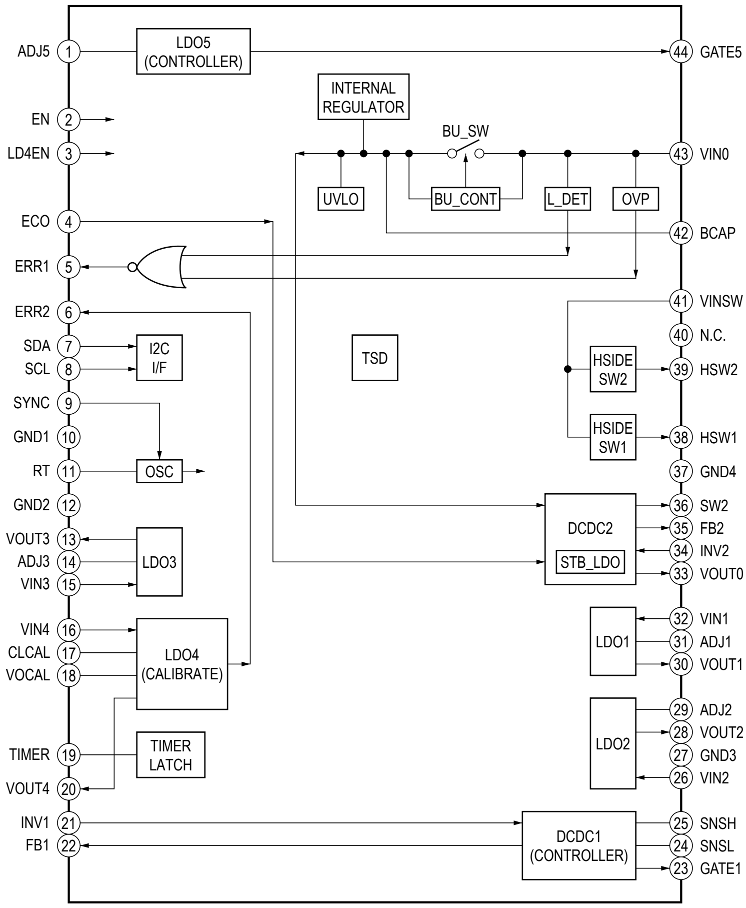
IC702, 1001, 1302 BU33TD3WG-TR
IC703, 704 BU15TD3WG-TR



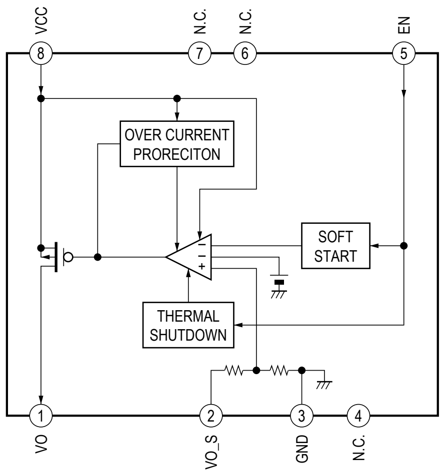
IC402 BD3468FV-E2



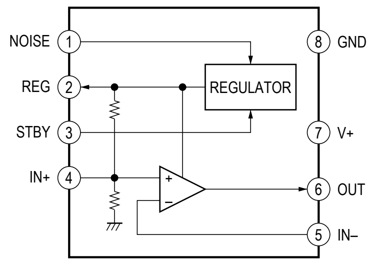
IC803 BD49100RFS-E2



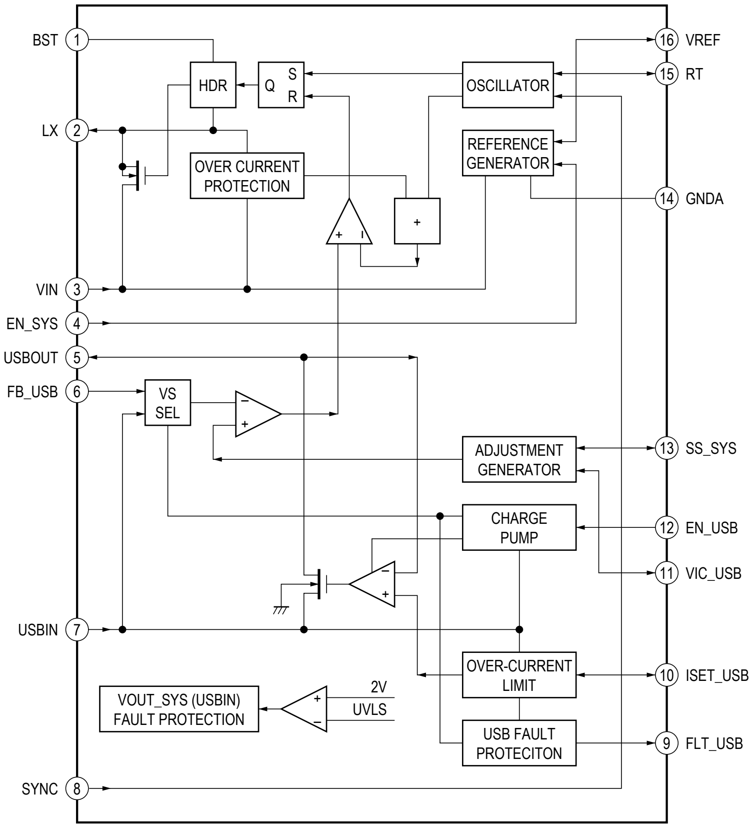
IC804 BD60HA5WEFJ-E2



IC1003 NJM2781RB1

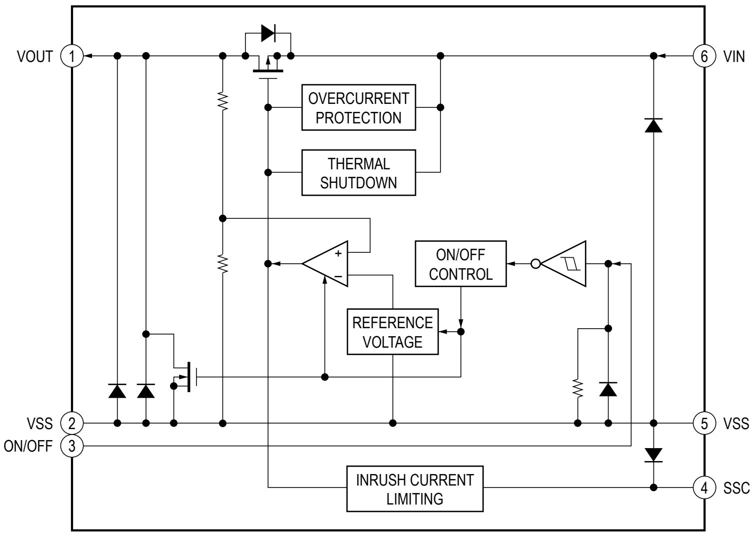


IC1300 OZ539IGN-A1-0-TR



– REGULATOR Board –

IC001 S-13A1A12-E6T1U3



- **IC Pin Function Description**

MAIN BOARD IC503 R7S7200022CFP (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	BT_MIC_DET	I	External microphone plug insert detection signal input terminal for the Bluetooth
2	AMP_ATT	O	Amplifier muting on/off control signal output to the power amplifier “L”: muting on
3	AMPSTB	O	Standby signal output to the power amplifier “L”: standby
4	SERVO_ON	O	Power on/off control signal output to the servo section “H”: power on
5	SP_CLK	O	Serial data transfer clock signal output to the audio DSP
6	SP_DATA	I	Serial data input from the audio DSP
7	Vcc	-	Power supply terminal (+1.18V) (for internal)
8	DEC_XMUTE	O	Muting on/off control signal output to the audio DSP “L”: muting on
9	Vss	-	Ground terminal
10	CD_ZDET	I	Zero data detection signal input from the audio DSP
11	PVcc	-	Power supply terminal (+3.3V) (for I/O)
12	BSIF_GATE	O	Gate signal output to the audio DSP
13	DEC_INT	I	Interrupt signal input from the audio DSP
14	DSP_RST	O	Reset signal output to the audio DSP “L”: reset
15	DSP_SSTBY	O	Standby signal output to the audio DSP “L”: standby
16	BSIF_ST_REQ	I	Request signal input from the audio DSP
17	CD_BUSCLK	O	Serial data transfer clock signal output to the audio DSP
18	Vss	-	Ground terminal
19	CD_XCCE	O	Chip enable signal output to the audio DSP
20	CD_SDO	O	Serial data output to the audio DSP
21	Vcc	-	Power supply terminal (+1.18V) (for internal)
22	CD_SDI	I	Serial data input from the audio DSP
23	Vss	-	Ground terminal
24	BSIF_BCK	O	Bit clock signal output to the audio DSP
25	PVcc	-	Power supply terminal (+3.3V) (for I/O)
26	BSIF_LR	O	L/R sampling clock signal output to the audio DSP
27	BSIF_DO	O	Audio data output to the audio DSP
28	BEEP	O	Beep sound drive signal output to the power amplifier
29	DEC_BCK_IN	I	Bit clock signal input from the audio DSP
30	DEC_LRCK_IN	I	L/R sampling clock signal input from the audio DSP
31	Vss	-	Ground terminal
32	DEC_SDOUT_F	O	Audio data output to the audio DSP
33	DEC_SDIN_CH0	I	Audio data input from the audio DSP
34	Vcc	-	Power supply terminal (+1.18V) (for internal)
35	LCD_CLK	O	Serial data transfer clock signal output to the front panel block
36	Vss	-	Ground terminal
37	NC	-	Not used
38	LCD_CE	O	Chip enable signal output to the front panel block
39	PVcc	-	Power supply terminal (+3.3V) (for I/O)
40	LCD_DO	O	Serial data output to the front panel block
41	MEC_EJECT	O	Loading motor drive signal (eject direction) output terminal “H”: motor on
42	SYNC_OUT	O	Frequency control signal output to the regulator and DC/DC converter
43	DEBUG_TX	O	Transmit data output terminal for the debug Not used
44	LRCK_INT	I	L/R sampling clock signal input from the pin 26 (BSIF_LR)
45	ACC_IN	I	Accessory power detection signal input terminal “L”: accessory power on
46	Vss	-	Ground terminal
47	DRV_ON	O	Driver control signal output to the CD mechanism deck block
48	XM_TX	O	Serial data output to the SIRIUSXM in connector
49	KEY_ACK1	I	Key acknowledge signal (wake up signal) input from the front panel block
50	PVcc	-	Power supply terminal (+3.3V) (for I/O)
51	MEC_INSW	I	Disc insert detection switch input terminal
52	BT_CLK	I	Serial data transfer clock signal input from the BT module
53	BT_SYNC	I	Sync signal input from the BT module
54	BT_DOUT	O	Audio data output to the BT module
55	BT_DIN	I	Audio data input from the BT module
56	BU_IN	I	Back-up power detection signal input terminal “L” is input at low voltage

Pin No.	Pin Name	I/O	Description
57	MEC_LIMIT	I	Limit in detection switch input terminal
58	Vcc	-	Power supply terminal (+1.18V) (for internal)
59	KEY_ACK0	I	Key acknowledge signal (wake up signal) input from the rotary commander
60	MEC_LOAD	O	Loading motor drive signal (loading direction) output terminal "H": motor on
61	Vss	-	Ground terminal
62	PVcc	-	Power supply terminal (+3.3V) (for I/O)
63	XM_RX	I	Serial data input from the SIRIUSXM in connector
64	DEBUG_RX	I	Receive data input terminal for the debug Not used
65	BT_RX	I	Serial data input from the BT module
66	TBD	I	Fixed at "L" in this unit
67	RTC_X1	I	System clock input terminal (32.768 kHz)
68	RTC_X2	O	System clock output terminal (32.768 kHz)
69	PLLVcc	-	Power supply terminal (+1.18V) (for PLL)
70	EXTAL	I	System clock input terminal (13.333 MHz)
71	XTAL	O	System clock output terminal (13.333 MHz)
72, 73	Vss	-	Ground terminal
74	NMI	I	Fixed at "H" in this unit
75	Vss	-	Ground terminal
76	RES	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
77	PVcc	-	Power supply terminal (+3.3V) (for I/O)
78 to 80	NC	-	Not used
81	RC_IN0	I	Rotary commander key input terminal
82, 83	KEY_IN0, KEY_IN1	I	Front panel key input terminal
84, 85	NC	-	Not used
86	AVcc	-	Power supply terminal (+3.3V) (analog system)
87	Vss	-	Ground terminal
88	AVref	-	Reference power supply (+3.3V) input terminal (analog system)
89	BSCANP	I	Fixed at "L" in this unit
90	PVcc	-	Power supply terminal (+3.3V) (for I/O)
91	AUDIO_X1	I	Audio clock signal input terminal
92	NC	-	Not used
93	Vss	-	Ground terminal
94	SYNC_ON	O	Not used
95	Vcc	-	Power supply terminal (+1.18V) (for internal)
96	XM_PWR	O	Power supply on/off control signal output to the SIRIUSXM in connector "H": power on
97	TRST	I	Reset signal input terminal for the JTAG Not used
98	TDO	O	Data output terminal for the JTAG Not used
99	TDI	I	Data input terminal for the JTAG Not used
100	TMS	I	Mode selection signal input terminal for the JTAG Not used
101	TCK	I	Clock signal input terminal for the JTAG Not used
102	Vss	-	Ground terminal
103	ILL_IN	I	Illuminate line detection signal input terminal
104	EN_SYS	O	Power on/off control signal output to the regulator and DC/DC converter "H": power on
105	Vcc	-	Power supply terminal (+1.18V) (for internal)
106	PWR_ECO	O	Low power mode selection signal output to the regulator "L": low power mode
107	Vss	-	Ground terminal
108	USB_OVR	I	USB over current detection signal input from the regulator "L": over current
109	PVcc	-	Power supply terminal (+3.3V) (for I/O)
110	USB_ON2	O	USB power on/off control signal output to the DC/DC converter "H": power on
111	USB_OVR2	I	USB over current detection signal input from the DC/DC converter "L": over current
112	BT_PWR	O	Power on/off control signal output terminal for the Bluetooth section "H": power on
113	NC	-	Not used
114	BT_RST	O	Reset signal output to the BT module "L": reset
115	NC	-	Not used
116	Vss	-	Ground terminal
117	NC	-	Not used
118	USB_ON	O	USB power on/off control signal output to the regulator "H": power on
119	Vcc	-	Power supply terminal (+1.18V) (for internal)
120	RC_IN1	I	Rotary commander shift key input terminal

Pin No.	Pin Name	I/O	Description
121	Vss	-	Ground terminal
122	RE_ON	O	Jog dial pulse pull-up signal output terminal
123	PVcc	-	Power supply terminal (+3.3V) (for I/O)
124	MEC_DSW	I	Chucking end detection switch input terminal
125	I2C0_SCL	O	Serial data transfer clock signal output to the electrical volume, regulator and EEPROM
126	I2C0_SDA	I/O	Two-way data bus with the electrical volume, regulator and EEPROM
127	I2C1_SCL	O	Serial data transfer clock signal output to the tuner unit
128	I2C1_SDA	I/O	Two-way data bus with the tuner unit
129, 130	NC	-	Not used
131, 132	RE_IN0, RE_IN1	I	Jog dial pulse input from the rotary encoder
133	BT_TX	O	Serial data output to the BT module
134	USB_CHG_MOD2	O	USB charge control signal output terminal Not used
135	DOOR_SW	I	Front panel remove/attach detection signal input terminal "L": Front panel is attached
136	SIRCS	I	Remote control signal input from the front panel block
137	MEC_SELFSW	I	Self loading position detection switch input terminal
138	Vss	-	Ground terminal
139	USB_X1	I	System clock input terminal (48 MHz)
140	USB_X2	O	System clock output terminal (48 MHz)
141	USBDPVcc	-	Power supply terminal (+3.3V) (for USB digital)
142	USBDPVss	-	Ground terminal (for USB digital)
143 to 145	NC	-	Not used
146	USBDVcc	-	Power supply terminal (+1.18V) (for USB digital)
147	USBDVss	-	Ground terminal (for USB digital)
148	USBDPVcc	-	Power supply terminal (+3.3V) (for USB digital)
149	USBDPVss	-	Ground terminal (for USB digital)
150	DM0	I/O	Two-way USB data (–) bus with the USB controller
151	DP0	I/O	Two-way USB data (+) bus with the USB controller
152	VBUSIN0	I	VBUS power detection signal input terminal "H": VBUS power is detected
153	USBDVcc	-	Power supply terminal (+1.18V) (for USB digital)
154	USBDVss	-	Ground terminal (for USB digital)
155	REFRIN	I	External resistor connection terminal
156	USBAPVss	-	Ground terminal (for USB analog)
157	USBAPVcc	-	Power supply terminal (+3.3V) (for USB analog)
158	USBAVcc	-	Power supply terminal (+1.18V) (for USB analog)
159	USBAVss	-	Ground terminal (for USB analog)
160	USBUVcc	-	Power supply terminal (+1.18V) (for USB 48 MHz)
161	USBUVss	-	Ground terminal (for USB 48 MHz)
162, 163	Vss	-	Ground terminal
164, 165	NC	-	Not used
166	SF1_D2	O	Write protect signal output to the serial flash
167	SF1_D3	O	Hold signal output to the serial flash
168	SF1_CLK	O	Serial data transfer clock signal output to the serial flash
169	SF1_CE	O	Chip select signal output to the serial flash
170	SF1_D0	O	Serial data output to the serial flash
171	Vss	-	Ground terminal
172	SF1_D1	I	Serial data input from the serial flash
173	USB_CHG_MOD1	O	USB charge control signal output terminal Not used
174	PVcc	-	Power supply terminal (+3.3V) (for I/O)
175	ATT	O	Audio muting on/off control signal output terminal "H": muting on
176	HIT2_RESET	O	Reset signal output to the tuner unit "L": reset

MAIN BOARD IC705 TC94A99FG-003 (SYCH (RF AMP, DIGITAL SERVO PROCESSOR, AUDIO DSP)

Pin No.	Pin Name	I/O	Description
1	LPFO	O	PLL circuit low-pass filter amplifier output terminal
2	PVREF	-	PLL circuit reference voltage (+1.65V) terminal
3	VCOF	O	VCO filter terminal
4	RVSS3	-	Ground terminal
5	VCOI	I	DSP VCO control voltage input terminal
6	RVDD3	-	Power supply terminal (+3.3V)
7	SLCO	O	EFM slice level output terminal
8	RFI	I	RF signal input terminal
9	RFRPI	I	RF ripple signal input terminal
10	RFEQO	O	RF equalizer circuit output terminal
11	DCOFC	O	RF equalizer offset compensation low-pass filter output terminal
12	AGCI	I	RF signal auto gain control amplifier input terminal
13	RFO	O	RF signal generation amplifier output terminal
14	RVSS3	-	Ground terminal
15	FNI2	I	Main beam (B) input from the CD mechanism deck block
16, 17	FNI1, FPI2	I	Main beam (C) input from the CD mechanism deck block
18	FPI1	I	Main beam (A) input from the CD mechanism deck block
19	VDD1-1	-	Power supply terminal (+1.5V)
20	TPI	I	Sub beam (F) input from the CD mechanism deck block
21	TNI	I	Sub beam (E) input from the CD mechanism deck block
22	VRO	O	Reference voltage (+1.65V) output to the CD mechanism deck block
23	AVSS3	-	Ground terminal
24	MDI	I	Laser power detection signal input from the CD mechanism deck block
25	LDO	O	Laser power control signal output the CD mechanism deck block
26	FSMONIT	O	Not used
27	RFZI	I	RF ripple zero-cross signal input terminal
28	RFRP	O	RF ripple signal output terminal
29	TEI	O	Tracking error signal output terminal
30	AVDD3	-	Power supply terminal (+3.3V)
31	FOO	O	Focus coil control signal output to the CD mechanism deck block
32	TRO	O	Tracking coil control signal output to the CD mechanism deck block
33	VSS-1	-	Ground terminal
34	FMO	O	Sled motor control signal output to the CD mechanism deck block
35	DMO	O	Spindle motor control signal output to the CD mechanism deck block
36	VDDM1	-	Power supply terminal (+1.5V)
37	/SRAMSTB	I	Standby signal input from the system controller “L”: standby
38	VDD1-2	-	Power supply terminal (+1.5V)
39	VDD3-1	-	Power supply terminal (+3.3V)
40, 41	PIO10, PIO11	I/O	Not used
42	SDIN_R	I	Audio data input from the system controller
43	BCK_IN_R	I	Bit clock signal input from the pin 49 (BCK_OUT)
44	LRCK_IN_R	I	L/R sampling clock signal input from the pin 48 (LRCK_OUT)
45	SDOUT_CH0	O	Audio data output to the system controller
46, 47	PIO16, PIO17	I/O	Not used
48	LRCK_OUT	O	L/R sampling clock signal output to the system controller
49	BCK_OUT	O	Bit clock signal output to the system controller
50	PIO20	I/O	Not used
51	DVDD12	-	Power supply terminal (+3.3V)
52	DAO1 (R_R-CH)	O	Audio signal (rear R-ch) output to the electrical volume
53	DVSS12	-	Ground terminal
54	DAO2 (F_R-CH)	O	Audio signal (front R-ch) output to the electrical volume
55	DVREF	-	Reference voltage terminal
56	DVDD34	-	Power supply terminal (+3.3V)
57	DAO3 (F_L-CH)	O	Audio signal (front L-ch) output to the electrical volume
58	DVSS34	-	Ground terminal
59	DAO4 (R_L-CH)	O	Audio signal (rear L-ch) output to the electrical volume
60	DVDD5	-	Power supply terminal (+3.3V)
61	DAO5 (SUB-CH)	O	Audio signal (sub-ch) output to the electrical volume

Pin No.	Pin Name	I/O	Description
62	DVSS5	-	Ground terminal
63	VDD1-3	-	Power supply terminal (+1.5V)
64	VSS-2	-	Ground terminal
65	XVSS3	-	Ground terminal
66	XI	I	System clock input terminal (16.9344 MHz)
67	XO	O	System clock output terminal (16.9344 MHz)
68	XVDD3	-	Power supply terminal (+3.3V)
69	ADVDD3	-	Power supply terminal (+3.3V)
70	ADIN1 (IN_L-CH)	I	Audio signal (L-ch) input from the electrical volume
71	ADVREFL	O	Reference voltage output terminal
72	ADVCM	O	Reference voltage output terminal
73	ADVREFH	O	Reference voltage output terminal
74	ADIN2 (IN_R-CH)	I	Audio signal (R-ch) input from the electrical volume
75	ADVSS3	-	Ground terminal
76	MS	I	Microprocessor interface mode selection signal input terminal "L": serial interface, "H": parallel interface Fixed at "L" in this unit
77, 78	CD_BUS0, CD_BUS1	I/O	Serial data input/output terminal Not used
79	CD_BUS2	O	Serial data output to the system controller
80	CD_BUS3	I	Serial data input from the system controller
81	CD_BUCK	I	Serial data transfer clock signal input from the system controller
82	CD_XCCE	I	Chip enable signal input from the system controller
83	VDD3-2	-	Power supply terminal (+3.3V)
84	VSS-3	-	Ground terminal
85	/RST	I	Reset signal input from the system controller "L": reset
86	VDD1-4	-	Power supply terminal (+1.5V)
87	DEC_INT	O	Interrupt signal output to the system controller
88	BSIF_INT	O	Request signal output to the system controller
89	BSIF_GATE	I	Gate signal input from the system controller
90	BSIF_DATA	I	Audio data input from the system controller
91	BCK_IN_F	I	Bit clock signal input from the system controller
92	LRCK_IN_F	I	L/R sampling clock signal input from the system controller
93	DEC_XMUTE	I	Muting on/off control signal input from the system controller "L": muting on
94	ZDET	O	Zero data detection signal output to the system controller
95	SP_DATA	O	Serial data output to the system controller
96	SP_CLK	I	Serial data transfer clock signal input from the system controller
97	TEST	I	Test mode setting terminal Normally fixed at "L"
98	PDO	O	EFM and PLCK phase difference signal output terminal
99	TMAX	O	TMAX detection result output terminal
100	LPFN	I	PLL circuit low-pass filter amplifier inversion input terminal

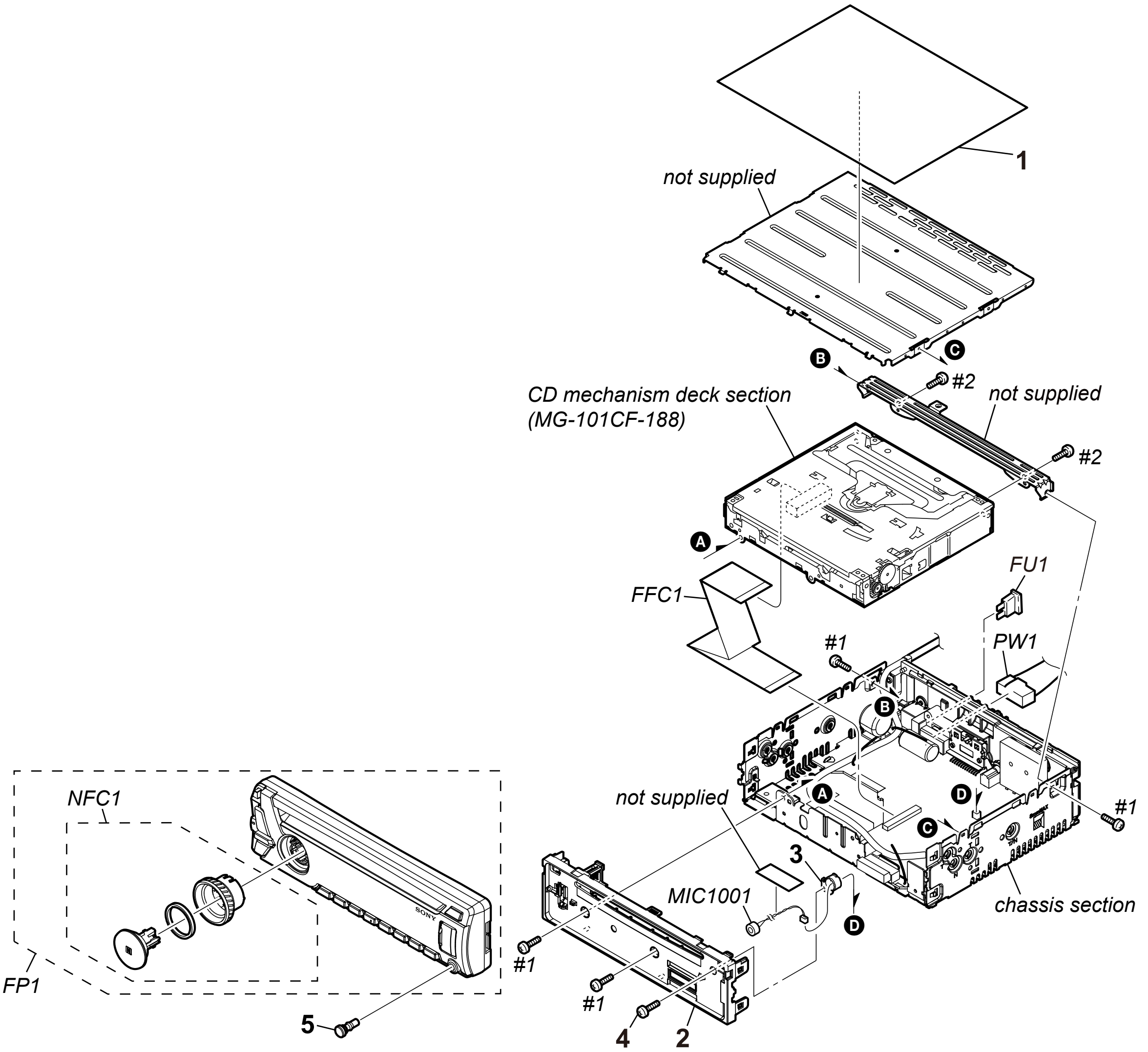
MAIN BOARD IC1301 µPD720114GA-YEU-AT-SAK (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VDD25OUT	O	Internal regulator power supply voltage (+2.5V) output terminal
2	VSSREG	-	Ground terminal (for internal regulator)
3 to 6	LED4 to LED1	O	LED drive signal output terminal Not used
7	GREEN	O	LED (green color) control signal output terminal Not used
8	AMBER	O	LED (amber color) control signal output terminal Not used
9	VDD33	-	Power supply terminal (+3.3V)
10	X1	I	System clock input terminal (30 MHz)
11	X2	O	System clock output terminal (30 MHz)
12	VDD25	-	Power supply terminal (+2.5V)
13	BUS_B	I	Power supply setting terminal Fixed at “H” in this unit
14	TEST	I	Test mode control signal input terminal Fixed at “L” in this unit
15	RREF	-	Reference resistor connection terminal
16	AVSS (R)	-	Ground terminal
17	AVDD	-	Power supply terminal (+2.5V)
18	AVSS	-	Ground terminal
19	AVDD	-	Power supply terminal (+2.5V)
20	VDD33	-	Power supply terminal (+3.3V)
21	DMU	I/O	Two-way USB data (–) bus with the system controller
22	DPU	I/O	Two-way USB data (+) bus with the system controller
23	VSS	-	Ground terminal
24	VDD25	-	Power supply terminal (+2.5V)
25	DM1	I/O	Two-way USB data (–) bus with the USB connector
26	DP1	I/O	Two-way USB data (+) bus with the USB connector
27	VSS	-	Ground terminal
28	DM2	I/O	Two-way USB data (–) bus terminal Not used
29	DP2	I/O	Two-way USB data (+) bus terminal Not used
30	VDD33	-	Power supply terminal (+3.3V)
31	DM3	I/O	Two-way USB data (–) bus terminal Not used
32	DP3	I/O	Two-way USB data (+) bus terminal Not used
33	VDD25	-	Power supply terminal (+2.5V)
34	DM4	I/O	Two-way USB data (–) bus with the USB cable connector
35	DP4	I/O	Two-way USB data (+) bus with the USB cable connector
36	VSS	-	Ground terminal
37	SYSRSTB	I	Reset signal input terminal “L”: reset Fixed at “H” in this unit
38	PPB4	I/O	Power control signal input/output terminal Not used
39	CSB4	I	Over current detection signal input terminal Not used
40	PPB3	I/O	Power control signal input/output terminal Not used
41	CSB3	I	Over current detection signal input terminal Not used
42	VSS	-	Ground terminal
43	PPB2	I/O	Power control signal input/output terminal Not used
44	CSB2	I	Over current detection signal input terminal Not used
45	PPB1	I/O	Power control signal input/output terminal Not used
46	CSB1	I	Over current detection signal input terminal Not used
47	VBUSM	I	VBUS power monitor terminal
48	VDD33REG	I	Internal regulator power supply voltage (+3.3V) input terminal

SECTION 6
EXPLODED VIEWS

Note:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color

6-1. SUB PANEL SECTION



Note 1: The service manual of the mechanism deck, used in this model has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

Note 2: When the knob (VOL) (SV) assy (Ref. No. NFC1) is replaced, Bluetooth information writing is necessary. Refer to "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

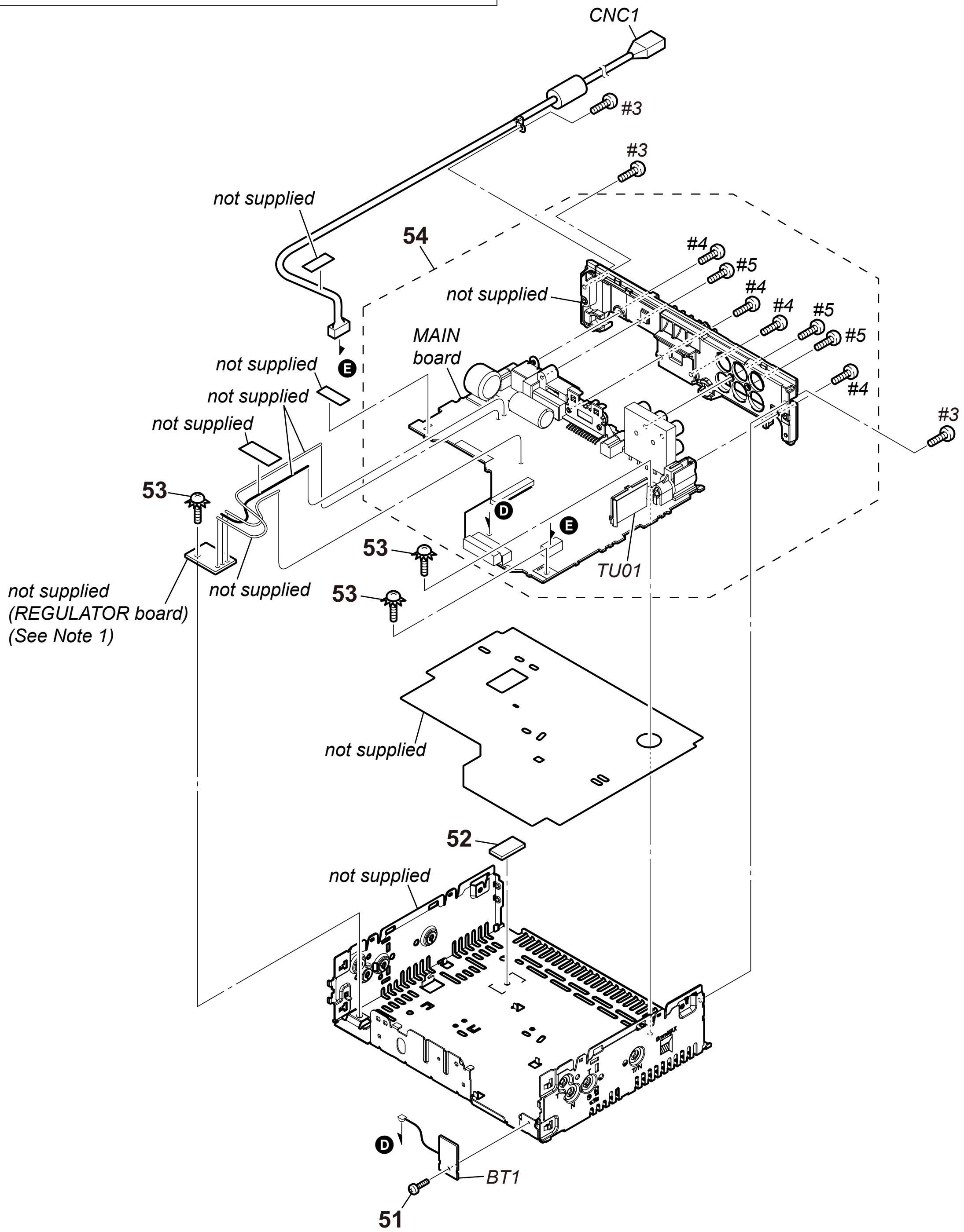
Note 3: When the front panel (SV) (assy) (Ref. No. FP1) is replaced, the Bluetooth information writing and affixing of label (serial number) is necessary. Refer to "AFFIXING OF LABEL (SERIAL NUMBER)" and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

Note 4: The length of cable flexible flat (27 core) has been changed from 150 mm to 80 mm in the midway of production.
When replacing the part of Ref. No. FFC1, use the part of the same length as before replacing.

Ref. No.	Part No.	Description	Remark
1	2-590-307-03	SHEET, COVER	
2	X-2587-191-1	PANEL ASSY, SUB	
3	2-898-980-02	HOLDER (MIC SLOT)	
4	3-250-543-21	SCREW (+B P-TITE M2)	
5	2-683-516-01	CAP (AUX)	
FFC1	1-846-819-31	CABLE FLEXIBLE FLAT (27 CORE) (Length: 150 mm) (See Note 4)	
FFC1	1-846-819-41	CABLE FLEXIBLE FLAT (27 CORE) (Length: 80 mm) (See Note 4)	
FP1	A-2037-605-A	PANEL (SV) (ASSY) FRONT (See Note 3)	
FU1	1-523-227-11	MINI FUSE (BLADE TYPE) (10 A/32 V)	
MIC1001	1-542-919-11	MICROPHONE	
NFC1	X-2588-698-1	KNOB (VOL) (SV) ASSY (See Note 2)	
PW1	1-846-979-11	CONNECTION CABLE, AUTOMOBILE (POWER)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	

6-2. CHASSIS SECTION

> **Note 1:** REGULATOR board has been deleted in the midway of production. For details, please refer to service manual supplement-1.



> **Note 2:** When the complete MAIN board (Ref No. 54) is replaced, it is necessary to replace knob (VOL) (SV) assy (Ref. No. NFC1: page 41) simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

> **Note 3:** Refer to "NEW/FORMER DISCRIMINATION" on page 1 on service manual supplement-1 for how to distinguish New/Former types.

Ref. No.	Part No.	Description	Remark
51	3-042-244-01	SCREW (T)	
52	4-548-823-01	SHEET HEAT TRANSFER	
53	4-410-504-01	SCREW (+PTT 2.6X6), GROUND POINT	
54	A-2033-096-A	MAIN BOARD, COMPLETE (Former type) (See Note 2, 3)	
54	A-2033-096-B	MAIN BOARD, COMPLETE (New type) (See Note 2, 3)	

Ref. No.	Part No.	Description	Remark
BT1	1-754-894-21	BT, ANTENNA	
CNC1	1-846-892-21	CONNECTION CABLE (AUTOMOBILE) ( )	
TU01	A-1946-531-A	TUX-DSP03 (TUNER UNIT)	
#3	7-685-793-01	SCREW +PTT 2.6X8 (S)	
#4	7-685-794-01	SCREW +PTT 2.6X10 (S)	
#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

SECTION 7
ELECTRICAL PARTS LIST

Note:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . , uPA. . , μPA. . ,
  uPB. . : μPB. . , uPC. . , μPC. . ,
  uPD. . : μPD. .

When indicating parts by reference number, please include the board name.

	Ref. No.	Part No.	Description			Remark
			KEY BOARD			
			**********			

When the KEY board is defective, replace the FRONT PANEL (SV) (ASSY) (Ref. No. FP1).
****

	Ref. No.	Part No.	Description			Remark
		A-2033-096-A	MAIN BOARD, COMPLETE (See Note)			
			********************			
		7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
		7-685-794-01	SCREW +PTT 2.6X10 (S)			
			< CAPACITOR/RESISTOR >			
*	C03	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C05	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C09	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C010	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C013	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C014	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C015	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
	C102	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
*	C103	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C104	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C105	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C106	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
*	C107	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C109	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C301	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C302	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C303	1-112-839-11	ELECT	4700uF	20%	16V
	C304	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C305	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C306	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C307	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C308	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C309	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C310	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C311	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C313	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C314	1-118-930-11	CERAMIC CHIP	10uF	10%	10V
	C315	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C316	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C317	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C318	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C319	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C320	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C321	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C322	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C323	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C324	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C325	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C326	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C328	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C329	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C330	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C331	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C332	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C333	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C334	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C335	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C336	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C337	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C338	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C339	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C340	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C341	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C342	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C343	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C400	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
	C401	1-128-992-21	ELECT CHIP	47uF	20%	25V
	C402	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C404	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C405	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C406	1-124-779-00	ELECT CHIP	10uF	20%	16V
*	C407	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
	C408	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C409	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C410	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C411	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C412	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
	C413	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C414	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C415	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
	C416	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C417	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C418	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C419	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
*	C420	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C421	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C422	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C423	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

MAIN

	Ref. No.	Part No.	Description			Remark
	C424	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V
	C425	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C441	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C442	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C443	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C444	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C445	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C446	1-114-599-21	ELECT CHIP	10uF	20%	35V
	C501	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C502	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C503	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
	C504	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C505	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C506	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C507	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C508	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C509	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C510	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C511	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C512	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C515	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C517	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C518	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V
	C519	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C520	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C521	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C522	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
	C523	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C524	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C525	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C526	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C527	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C528	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C529	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C530	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C531	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
	C532	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C533	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
	C534	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C535	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C536	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C537	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C538	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C539	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C540	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C541	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C543	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C544	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C545	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C546	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C547	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C548	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C549	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C550	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C551	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C553	1-216-833-11	METAL CHIP	10K	5%	1/10W
	C559	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
	C560	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C564	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
	C566	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C567	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C568	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
	C569	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C570	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C571	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C702	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C704	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C705	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C706	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C707	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C711	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C712	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C714	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
	C715	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C716	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C717	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
*	C718	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C719	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C720	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
*	C721	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C722	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C723	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C725	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C727	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C728	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C729	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C730	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C731	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
	C732	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C734	1-118-394-11	CERAMIC CHIP	0.0056uF	10%	50V
	C735	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
	C736	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
	C737	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C738	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C739	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C740	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C741	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C742	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C743	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
	C744	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C745	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C746	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C747	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C748	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C749	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C750	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C751	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C754	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C755	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C756	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
	C758	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C759	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C760	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
	C761	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C762	1-100-579-81	CERAMIC CHIP	0.0056uF	10%	25V
	C763	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
	C764	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
	C765	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C766	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V

	Ref. No.	Part No.	Description			Remark
	C767	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C768	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C769	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C770	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C771	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C772	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C773	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C775	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C777	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C779	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C780	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C781	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C782	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C783	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
	C786	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C787	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C788	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C790	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C793	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C801	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C803	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C804	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C805	1-118-405-11	CERAMIC CHIP	680PF	10%	50V
	C806	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C807	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C809	1-118-393-11	CERAMIC CHIP	0.0068uF	10%	50V
	C810	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C811	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C812	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C813	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C814	1-135-366-11	ELECT CHIP	100uF	20%	16V
	C815	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C816	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C817	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C818	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C819	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C820	1-116-740-11	CERAMIC CHIP	0.47uF	10%	16V
	C821	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C822	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
*	C823	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C825	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C827	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C828	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
*	C829	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
*	C830	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C831	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C832	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C833	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C834	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C835	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C837	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C838	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C839	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
	C840	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
	C841	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
	C843	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C844	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
	C845	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C846	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C847	1-118-955-11	CERAMIC CHIP	22uF	20%	16V

	Ref. No.	Part No.	Description			Remark
	C848	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C850	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C861	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C865	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C866	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C867	1-100-769-21	ELECT CHIP	470uF	20%	16V
*	C872	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C874	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C875	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C876	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C878	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C1004	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C1005	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C1006	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1008	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
	C1009	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
*	C1010	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C1011	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C1012	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1013	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
*	C1014	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1016	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C1017	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C1018	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
	C1019	1-116-741-11	CERAMIC CHIP	0.47uF	20%	10V
	C1050	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C1052	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1054	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C1094	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1301	1-118-932-11	CERAMIC CHIP	10uF	10%	16V
	C1303	1-118-932-11	CERAMIC CHIP	10uF	10%	16V
	C1304	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
	C1306	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C1307	1-118-931-11	CERAMIC CHIP	22uF	10%	10V
	C1308	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
	C1309	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C1310	1-135-366-11	ELECT CHIP	100uF	20%	16V
	C1312	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C1313	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
	C1314	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C1315	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C1316	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C1317	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1318	1-118-278-91	CERAMIC CHIP	2.2uF	10%	10V
	C1320	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
	C1321	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1322	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1323	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1324	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
*	C1325	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1326	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1327	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1328	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1329	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1330	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C1331	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C1332	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1333	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1334	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1336	1-162-923-11	CERAMIC CHIP	47PF	5%	50V

	Ref. No.	Part No.	Description	Remark
	C1337	1-118-386-11	CERAMIC CHIP 0.1uF 10%	16V
	C1338	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
	C1339	1-118-045-11	CERAMIC CHIP 2.2uF 10%	25V
	C1341	1-118-403-11	CERAMIC CHIP 0.001uF 10%	50V
	C1342	1-118-403-11	CERAMIC CHIP 0.001uF 10%	50V
*	C1344	1-116-738-11	CERAMIC CHIP 1uF 10%	6.3V
	C1353	1-118-361-11	CERAMIC CHIP 0.1uF 10%	50V
	C1358	1-162-966-91	CERAMIC CHIP 0.0022uF 10%	50V
			< CONNECTOR >	
	CN101	1-842-266-22	SOCKET, CONNECTOR 20P	
	CN301	1-843-330-11	PIN, CONNECTOR 16P	
	CN502	1-779-806-21	CONNECTOR 8P	
	CN701	1-843-775-11	CONNECTOR, FFC/FPC (ZIF) 27P	
	CN801	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR	(SIRIUSXM IN)
	CN1001	1-785-125-21	CONNECTOR 6P	
	CN1002	1-821-559-11	CONNECTOR, COAXIAL (SMT TYPE)	
	CN1004	1-784-650-21	CONNECTOR 2P	
	CN1300	1-779-993-11	PIN, CONNECTOR (PWB) 5P	
			< DIODE >	
	D114	6-502-969-01	DIODE DZ2J06800L	
	D301	6-503-548-01	DIODE DB2441600L	
	D303	6-503-238-01	DIODE GN1G	
	D304	6-502-961-01	DIODE DA2J10100L	
	D401	6-502-961-01	DIODE DA2J10100L	
	D501	6-503-759-01	DIODE RB751V40, 115	
	D502	6-503-759-01	DIODE RB751V40, 115	
	D801	6-504-041-01	DIODE RB050L-60	
	D802	6-502-972-01	DIODE DZ2J09100L	
	D805	6-503-031-01	DIODE DZ2J18000L	
*	D806	6-503-973-01	DIODE RSX205L-30TE25	
	D808	6-503-031-01	DIODE DZ2J18000L	
	D809	6-503-031-01	DIODE DZ2J18000L	
	D811	6-503-031-01	DIODE DZ2J18000L	
	D812	6-503-238-01	DIODE GN1G	
	D813	6-503-031-01	DIODE DZ2J18000L	
	D814	6-502-961-01	DIODE DA2J10100L	
	D816	6-504-047-01	DIODE RSX051VA-30	
	D817	6-503-016-01	DIODE DZ2J07500L	
	D818	6-503-031-01	DIODE DZ2J18000L	
	D1001	6-502-969-01	DIODE DZ2J06800L	
	D1002	6-502-969-01	DIODE DZ2J06800L	
	D1003	6-502-969-01	DIODE DZ2J06800L	
*	D1300	6-503-973-01	DIODE RSX205L-30TE25	
	D1306	6-503-759-01	DIODE RB751V40, 115	
			< FUSE >	
	F801	1-576-415-11	FUSE (2 A/32 V)	
			< FERRITE BEAD >	
	FB02	1-400-334-21	FERRITE, EMI (SMD) (1608)	
	FB101	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
	FB302	1-481-746-11	SDM EMI FERRITE	
	FB404	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
	FB501	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
	FB504	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
	FB505	1-400-823-11	EMI FERRITE (SMD) (1005)	
	FB702	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	

Ref. No.	Part No.	Description	Remark
FB703	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB804	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB805	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1003	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1004	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1005	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1300	1-469-094-21	FERRITE, EMI (SMD) (1608)	
FB1301	1-469-094-21	FERRITE, EMI (SMD) (1608)	
		< IC/BT MODULE >	
IC301	6-720-774-01	IC PURE5001H-4WX	
IC401	6-721-140-01	IC NJW4190R-A (TE2)	
IC402	6-721-168-01	IC BD3468FV-E2	
IC501	6-719-855-01	IC BU4228F-STR	
IC502	6-721-462-01	IC MX25L3235EM2I-10G-A01 (for SERVICE)	(See Note 1)
IC503	6-721-336-01	IC R7S7200022CFP	
IC504	6-710-376-01	IC 74LVC1G17GW-125	
IC702	6-717-694-01	IC BU33TD3WG-TR	
IC703	6-716-355-01	IC BU15TD3WG-TR	
IC704	6-716-355-01	IC BU15TD3WG-TR	
IC705	6-715-712-11	IC TC94A99FG-003 (SYCH	
IC801	6-709-182-01	IC TC7WH126FK	
IC802	6-710-376-01	IC 74LVC1G17GW-125	
IC803	6-721-184-01	IC BD49100RFS-E2	
IC804	(Not supplied)	IC BD60HA5WEFJ-E2 (See Note 2)	
IC1001	6-717-694-01	IC BU33TD3WG-TR	
IC1002	(Not supplied)	BT MODULE (WB113C) (See Note 2)	
IC1003	6-703-863-01	IC NJM2781RB1	
IC1009	6-718-324-01	IC MFI337S3959	
IC1051	6-716-858-01	IC NLASB3157DFT2G	
IC1300	6-718-913-01	IC OZ539IGN-A1-0-TR	
IC1301	6-718-416-01	IC uPD720114GA-YEU-AT-SAK	
IC1302	6-717-694-01	IC BU33TD3WG-TR	
		< JACK >	
J001	1-843-791-11	JACK (ANT) (ANTENNA IN)	
J401	1-822-714-21	JACK, PIN 6P (FRONT/REAR/SUB AUDIO OUT)	
J801	1-566-822-81	JACK (REMOTE IN)	
J1001	1-566-822-91	JACK (MIC)	
		< COIL >	
L01	1-400-073-21	INDUCTOR 4.7uH	
L301	1-456-617-11	COIL, CHOKE	
L401	1-469-844-11	INDUCTOR 2.2uH	
L501	1-414-842-21	INDUCTOR 15nH	
L502	1-414-842-21	INDUCTOR 15nH	
L504	1-400-073-21	INDUCTOR 4.7uH	
L505	1-400-073-21	INDUCTOR 4.7uH	
L801	1-460-704-11	COIL, CHOKE 22uH	
L802	1-481-904-11	INDUCTOR 47uH	
L1301	1-481-904-11	INDUCTOR 47uH	
L1302	1-414-842-21	INDUCTOR 15nH	
L1303	1-414-842-21	INDUCTOR 15nH	
L1304	1-414-842-21	INDUCTOR 15nH	
L1305	1-414-842-21	INDUCTOR 15nH	
L1307	1-457-223-11	COMMON MODE CHOKE COIL	

Note 1: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to “DESTINATION SETTING METHOD” on page 4.

Note 2: IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q401	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q402	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q403	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q404	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q405	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q406	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q407	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q408	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q701	6-551-120-01	TRANSISTOR	2SA2119K			
Q801	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q802	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q803	6-553-498-01	FET	NTTFS5116PLTWG			
Q805	6-553-497-01	FET	NVTFS5124PLTWG			
Q806	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
Q807	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
Q808	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q810	6-553-496-01	FET	RSD046P05TL			
Q811	6-553-496-01	FET	RSD046P05TL			
Q812	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL			
Q813	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q814	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
		< RESISTOR >				
R02	1-216-864-11	SHORT CHIP	0			
R09	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R10	1-218-990-81	SHORT CHIP	0			
R11	1-218-941-81	METAL CHIP	100	5%	1/16W	
R012	1-216-864-11	SHORT CHIP	0			
R21	1-216-864-11	SHORT CHIP	0			
R102	1-216-864-11	SHORT CHIP	0			
R103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R104	1-216-817-11	METAL CHIP	470	5%	1/10W	
R105	1-218-966-11	METAL CHIP	12K	5%	1/16W	
R107	1-218-966-11	METAL CHIP	12K	5%	1/16W	
R108	1-216-817-11	METAL CHIP	470	5%	1/10W	
R301	1-216-214-00	METAL CHIP	4.7K	5%	1/8W	
R302	1-216-864-11	SHORT CHIP	0			
R303	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R304	1-216-864-11	SHORT CHIP	0			
R305	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R306	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R307	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R308	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R309	1-218-943-11	METAL CHIP	150	5%	1/16W	
R310	1-218-973-11	METAL CHIP	47K	5%	1/16W	
R311	1-216-864-11	SHORT CHIP	0			
R312	1-218-973-11	METAL CHIP	47K	5%	1/16W	
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R316	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R318	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R319	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R321	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R323	1-218-990-81	SHORT CHIP	0			
R401	1-218-933-11	METAL CHIP	22	5%	1/16W	
R404	1-208-939-11	METAL CHIP	150K	0.5%	1/16W	

Ref. No.	Part No.	Description				Remark
R406	1-216-864-11	SHORT CHIP	0			
R407	1-216-296-11	SHORT CHIP	0			
R408	1-216-296-11	SHORT CHIP	0			
R409	1-216-296-11	SHORT CHIP	0			
R410	1-216-295-91	SHORT CHIP	0			
R411	1-250-519-11	METAL CHIP	10K	1%	1/16W	
R412	1-216-296-11	SHORT CHIP	0			
R413	1-250-600-11	METAL CHIP	220	1%	1/10W	
R414	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R415	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R416	1-216-864-11	SHORT CHIP	0			
R417	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R420	1-250-519-11	METAL CHIP	10K	1%	1/16W	
R421	1-250-600-11	METAL CHIP	220	1%	1/10W	
R422	1-250-600-11	METAL CHIP	220	1%	1/10W	
R423	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R424	1-218-990-81	SHORT CHIP	0			
R425	1-218-990-81	SHORT CHIP	0			
R426	1-218-990-81	SHORT CHIP	0			
R427	1-218-990-81	SHORT CHIP	0			
R428	1-218-990-81	SHORT CHIP	0			
R429	1-218-990-81	SHORT CHIP	0			
R430	1-218-990-81	SHORT CHIP	0			
R431	1-218-990-81	SHORT CHIP	0			
R432	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R433	1-250-600-11	METAL CHIP	220	1%	1/10W	
R434	1-250-600-11	METAL CHIP	220	1%	1/10W	
R435	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R436	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R437	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R438	1-250-600-11	METAL CHIP	220	1%	1/10W	
R439	1-218-990-81	SHORT CHIP	0			
R440	1-218-990-81	SHORT CHIP	0			
R501	1-218-941-81	METAL CHIP	100	5%	1/16W	
R502	1-218-941-81	METAL CHIP	100	5%	1/16W	
R503	1-218-941-81	METAL CHIP	100	5%	1/16W	
R504	1-218-941-81	METAL CHIP	100	5%	1/16W	
R505	1-218-941-81	METAL CHIP	100	5%	1/16W	
R506	1-218-941-81	METAL CHIP	100	5%	1/16W	
R507	1-216-864-11	SHORT CHIP	0			
R509	1-218-941-81	METAL CHIP	100	5%	1/16W	
R510	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R511	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R512	1-218-941-81	METAL CHIP	100	5%	1/16W	
R513	1-218-941-81	METAL CHIP	100	5%	1/16W	
R514	1-218-941-81	METAL CHIP	100	5%	1/16W	
R515	1-218-941-81	METAL CHIP	100	5%	1/16W	
R516	1-218-941-81	METAL CHIP	100	5%	1/16W	
R517	1-218-941-81	METAL CHIP	100	5%	1/16W	
R519	1-218-941-81	METAL CHIP	100	5%	1/16W	
R520	1-218-941-81	METAL CHIP	100	5%	1/16W	
R521	1-218-977-11	METAL CHIP	100K	5%	1/16W	
R522	1-218-941-81	METAL CHIP	100	5%	1/16W	
R523	1-218-977-11	METAL CHIP	100K	5%	1/16W	
R524	1-218-941-81	METAL CHIP	100	5%	1/16W	
R525	1-218-941-81	METAL CHIP	100	5%	1/16W	
R526	1-218-941-81	METAL CHIP	100	5%	1/16W	
R527	1-218-990-81	SHORT CHIP	0			
R528	1-218-990-81	SHORT CHIP	0			
R529	1-218-977-11	METAL CHIP	100K	5%	1/16W	

MAIN

Ref. No.	Part No.	Description			Remark
R533	1-218-990-81	SHORT CHIP	0		
R534	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R535	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R538	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R539	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R540	1-218-971-81	METAL CHIP	33K	5%	1/16W
R541	1-218-977-11	METAL CHIP	100K	5%	1/16W
R542	1-218-941-81	METAL CHIP	100	5%	1/16W
R544	1-218-971-81	METAL CHIP	33K	5%	1/16W
R545	1-218-965-11	METAL CHIP	10K	5%	1/16W
R546	1-218-965-11	METAL CHIP	10K	5%	1/16W
R547	1-218-965-11	METAL CHIP	10K	5%	1/16W
R548	1-218-965-11	METAL CHIP	10K	5%	1/16W
R549	1-218-977-11	METAL CHIP	100K	5%	1/16W
R550	1-218-990-81	SHORT CHIP	0		
R551	1-216-809-11	METAL CHIP	100	5%	1/10W
R552	1-218-949-11	METAL CHIP	470	5%	1/16W
R553	1-218-941-81	METAL CHIP	100	5%	1/16W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-218-941-81	METAL CHIP	100	5%	1/16W
R558	1-218-977-11	METAL CHIP	100K	5%	1/16W
R559	1-218-977-11	METAL CHIP	100K	5%	1/16W
R560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R561	1-218-941-81	METAL CHIP	100	5%	1/16W
R562	1-250-519-11	METAL CHIP	10K	1%	1/16W
R563	1-250-519-11	METAL CHIP	10K	1%	1/16W
R565	1-218-949-11	METAL CHIP	470	5%	1/16W
R566	1-250-519-11	METAL CHIP	10K	1%	1/16W
R567	1-218-990-81	SHORT CHIP	0		
R568	1-218-990-81	SHORT CHIP	0		
R571	1-218-990-81	SHORT CHIP	0		
R572	1-218-977-11	METAL CHIP	100K	5%	1/16W
R573	1-218-977-11	METAL CHIP	100K	5%	1/16W
R574	1-218-990-81	SHORT CHIP	0		
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W
R578	1-218-941-81	METAL CHIP	100	5%	1/16W
R579	1-250-553-11	METAL CHIP	270K	1%	1/16W
R582	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R583	1-250-513-11	METAL CHIP	5.6K	1%	1/16W
R585	1-218-977-11	METAL CHIP	100K	5%	1/16W
R586	1-218-977-11	METAL CHIP	100K	5%	1/16W
R587	1-218-941-81	METAL CHIP	100	5%	1/16W
R590	1-218-941-81	METAL CHIP	100	5%	1/16W
R591	1-218-977-11	METAL CHIP	100K	5%	1/16W
R592	1-218-977-11	METAL CHIP	100K	5%	1/16W
R593	1-218-941-81	METAL CHIP	100	5%	1/16W
R594	1-218-990-81	SHORT CHIP	0		
R597	1-218-981-81	METAL CHIP	220K	5%	1/16W
R598	1-218-977-11	METAL CHIP	100K	5%	1/16W
R599	1-218-941-81	METAL CHIP	100	5%	1/16W
R600	1-218-941-81	METAL CHIP	100	5%	1/16W
R601	1-218-941-81	METAL CHIP	100	5%	1/16W
R602	1-218-941-81	METAL CHIP	100	5%	1/16W
R603	1-218-941-81	METAL CHIP	100	5%	1/16W
R604	1-218-941-81	METAL CHIP	100	5%	1/16W
R605	1-218-977-11	METAL CHIP	100K	5%	1/16W
R606	1-218-977-11	METAL CHIP	100K	5%	1/16W
R607	1-218-941-81	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R608	1-218-990-81	SHORT CHIP	0		
R609	1-218-941-81	METAL CHIP	100	5%	1/16W
R610	1-218-941-81	METAL CHIP	100	5%	1/16W
R611	1-218-941-81	METAL CHIP	100	5%	1/16W
R612	1-218-941-81	METAL CHIP	100	5%	1/16W
R613	1-218-977-11	METAL CHIP	100K	5%	1/16W
R614	1-218-977-11	METAL CHIP	100K	5%	1/16W
R615	1-218-977-11	METAL CHIP	100K	5%	1/16W
R616	1-218-990-81	SHORT CHIP	0		
R617	1-218-977-11	METAL CHIP	100K	5%	1/16W
R618	1-218-941-81	METAL CHIP	100	5%	1/16W
R619	1-218-941-81	METAL CHIP	100	5%	1/16W
R621	1-218-953-11	METAL CHIP	1K	5%	1/16W
R622	1-218-941-81	METAL CHIP	100	5%	1/16W
R623	1-218-953-11	METAL CHIP	1K	5%	1/16W
R624	1-218-941-81	METAL CHIP	100	5%	1/16W
R625	1-218-941-81	METAL CHIP	100	5%	1/16W
R626	1-218-977-11	METAL CHIP	100K	5%	1/16W
R627	1-218-941-81	METAL CHIP	100	5%	1/16W
R628	1-218-953-11	METAL CHIP	1K	5%	1/16W
R629	1-218-941-81	METAL CHIP	100	5%	1/16W
R630	1-218-941-81	METAL CHIP	100	5%	1/16W
R631	1-218-965-11	METAL CHIP	10K	5%	1/16W
R632	1-218-965-11	METAL CHIP	10K	5%	1/16W
R633	1-218-965-11	METAL CHIP	10K	5%	1/16W
R634	1-218-941-81	METAL CHIP	100	5%	1/16W
R635	1-218-977-11	METAL CHIP	100K	5%	1/16W
R637	1-218-977-11	METAL CHIP	100K	5%	1/16W
R638	1-218-941-81	METAL CHIP	100	5%	1/16W
R639	1-218-941-81	METAL CHIP	100	5%	1/16W
R640	1-218-977-11	METAL CHIP	100K	5%	1/16W
R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R642	1-218-941-81	METAL CHIP	100	5%	1/16W
R643	1-218-977-11	METAL CHIP	100K	5%	1/16W
R644	1-218-941-81	METAL CHIP	100	5%	1/16W
R646	1-218-965-11	METAL CHIP	10K	5%	1/16W
R647	1-218-977-11	METAL CHIP	100K	5%	1/16W
R648	1-218-977-11	METAL CHIP	100K	5%	1/16W
R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R650	1-218-941-81	METAL CHIP	100	5%	1/16W
R651	1-218-941-81	METAL CHIP	100	5%	1/16W
R652	1-218-941-81	METAL CHIP	100	5%	1/16W
R653	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R654	1-218-990-81	SHORT CHIP	0		
R655	1-216-864-11	SHORT CHIP	0		
R656	1-218-941-81	METAL CHIP	100	5%	1/16W
R657	1-218-977-11	METAL CHIP	100K	5%	1/16W
R658	1-218-941-81	METAL CHIP	100	5%	1/16W
R659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R660	1-218-941-81	METAL CHIP	100	5%	1/16W
R662	1-218-965-11	METAL CHIP	10K	5%	1/16W
R665	1-218-941-81	METAL CHIP	100	5%	1/16W
R666	1-216-296-11	SHORT CHIP	0		
R680	1-218-941-81	METAL CHIP	100	5%	1/16W
R681	1-218-977-11	METAL CHIP	100K	5%	1/16W
R682	1-218-977-11	METAL CHIP	100K	5%	1/16W
R683	1-218-990-81	SHORT CHIP	0		
R684	1-216-295-91	SHORT CHIP	0		
R701	1-216-864-11	SHORT CHIP	0		
R702	1-218-990-81	SHORT CHIP	0		

	Ref. No.	Part No.	Description			Remark
	R703	1-216-864-11	SHORT CHIP	0		
	R704	1-216-864-11	SHORT CHIP	0		
	R705	1-218-990-81	SHORT CHIP	0		
	R706	1-216-864-11	SHORT CHIP	0		
	R707	1-216-864-11	SHORT CHIP	0		
	R708	1-216-864-11	SHORT CHIP	0		
	R709	1-218-953-11	METAL CHIP	1K	5%	1/16W
	R711	1-216-864-11	SHORT CHIP	0		
	R712	1-242-967-11	METAL CHIP	1	5%	1/16W
	R714	1-208-637-11	METAL CHIP	12	0.5%	1/16W
	R715	1-216-864-11	SHORT CHIP	0		
	R717	1-218-990-81	SHORT CHIP	0		
	R718	1-218-941-81	METAL CHIP	100	5%	1/16W
	R719	1-218-941-81	METAL CHIP	100	5%	1/16W
	R720	1-218-990-81	SHORT CHIP	0		
	R721	1-218-941-81	METAL CHIP	100	5%	1/16W
	R722	1-218-941-81	METAL CHIP	100	5%	1/16W
	R723	1-218-941-81	METAL CHIP	100	5%	1/16W
	R724	1-218-947-11	METAL CHIP	330	5%	1/16W
	R725	1-218-947-11	METAL CHIP	330	5%	1/16W
	R726	1-218-969-11	METAL CHIP	22K	5%	1/16W
	R727	1-218-990-81	SHORT CHIP	0		
	R728	1-218-969-11	METAL CHIP	22K	5%	1/16W
	R729	1-218-947-11	METAL CHIP	330	5%	1/16W
	R731	1-216-864-11	SHORT CHIP	0		
	R732	1-218-947-11	METAL CHIP	330	5%	1/16W
	R733	1-218-990-81	SHORT CHIP	0		
	R734	1-218-990-81	SHORT CHIP	0		
	R735	1-218-947-11	METAL CHIP	330	5%	1/16W
	R737	1-218-990-81	SHORT CHIP	0		
*	R738	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
	R739	1-218-989-11	METAL CHIP	1M	5%	1/16W
	R740	1-218-941-81	METAL CHIP	100	5%	1/16W
	R741	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
	R742	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
	R743	1-218-965-11	METAL CHIP	10K	5%	1/16W
	R744	1-218-965-11	METAL CHIP	10K	5%	1/16W
	R745	1-218-990-81	SHORT CHIP	0		
	R747	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R748	1-218-983-11	METAL CHIP	330K	5%	1/16W
	R749	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R750	1-218-967-11	METAL CHIP	15K	5%	1/16W
	R751	1-216-841-11	METAL CHIP	47K	5%	1/10W
	R752	1-218-941-81	METAL CHIP	100	5%	1/16W
	R753	1-218-941-81	METAL CHIP	100	5%	1/16W
	R754	1-218-941-81	METAL CHIP	100	5%	1/16W
	R755	1-218-941-81	METAL CHIP	100	5%	1/16W
	R756	1-218-941-81	METAL CHIP	100	5%	1/16W
	R757	1-218-941-81	METAL CHIP	100	5%	1/16W
	R758	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R760	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R761	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R763	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R803	1-250-525-11	METAL CHIP	18K	1%	1/16W
*	R805	1-250-543-11	METAL CHIP	100K	1%	1/16W
	R806	1-218-977-11	METAL CHIP	100K	5%	1/16W
*	R807	1-250-529-11	METAL CHIP	27K	1%	1/16W
	R808	1-250-640-11	METAL CHIP	10K	1%	1/10W
	R809	1-250-640-11	METAL CHIP	10K	1%	1/10W

	Ref. No.	Part No.	Description			Remark
*	R810	1-250-523-11	METAL CHIP	15K	1%	1/16W
	R811	1-218-990-81	SHORT CHIP	0		
	R812	1-218-941-81	METAL CHIP	100	5%	1/16W
	R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R814	1-218-966-11	METAL CHIP	12K	5%	1/16W
	R815	1-257-321-11	METAL CHIP	0.039	1%	1/2W
	R816	1-257-321-11	METAL CHIP	0.039	1%	1/2W
	R817	1-216-864-11	SHORT CHIP	0		
	R818	1-218-966-11	METAL CHIP	12K	5%	1/16W
	R819	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R822	1-250-602-11	METAL CHIP	270	1%	1/10W
	R823	1-250-632-11	METAL CHIP	4.7K	1%	1/10W
	R825	1-208-923-11	METAL CHIP	33K	0.5%	1/16W
	R826	1-208-946-81	METAL CHIP	300K	0.5%	1/16W
	R827	1-250-557-11	METAL CHIP	390K	1%	1/16W
	R828	1-250-541-11	METAL CHIP	82K	1%	1/16W
	R829	1-216-809-11	METAL CHIP	100	5%	1/10W
	R830	1-250-533-11	METAL CHIP	39K	1%	1/16W
	R831	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R832	1-250-495-11	METAL CHIP	1K	1%	1/16W
	R833	1-250-495-11	METAL CHIP	1K	1%	1/16W
	R834	1-216-809-11	METAL CHIP	100	5%	1/10W
*	R835	1-250-540-11	METAL CHIP	75K	1%	1/16W
	R836	1-216-809-11	METAL CHIP	100	5%	1/10W
	R837	1-216-839-11	METAL CHIP	33K	5%	1/10W
*	R838	1-250-545-11	METAL CHIP	120K	1%	1/16W
	R839	1-250-563-11	METAL CHIP	680K	1%	1/16W
*	R840	1-250-545-11	METAL CHIP	120K	1%	1/16W
	R841	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R842	1-218-990-81	SHORT CHIP	0		
	R845	1-218-990-81	SHORT CHIP	0		
	R846	1-250-495-11	METAL CHIP	1K	1%	1/16W
	R848	1-216-801-11	METAL CHIP	22	5%	1/10W
	R849	1-218-972-11	METAL CHIP	39K	5%	1/16W
	R850	1-218-975-11	METAL CHIP	68K	5%	1/16W
	R851	1-218-990-81	SHORT CHIP	0		
	R852	1-250-519-11	METAL CHIP	10K	1%	1/16W
	R853	1-208-897-81	METAL CHIP	2.7K	0.5%	1/16W
*	R854	1-250-543-11	METAL CHIP	100K	1%	1/16W
	R856	1-216-073-91	METAL CHIP	10K	5%	1/10W
	R857	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R858	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
	R859	1-216-073-91	METAL CHIP	10K	5%	1/10W
	R860	1-218-973-11	METAL CHIP	47K	5%	1/16W
	R861	1-218-969-11	METAL CHIP	22K	5%	1/16W
	R862	1-218-977-11	METAL CHIP	100K	5%	1/16W
	R863	1-218-990-81	SHORT CHIP	0		
	R865	1-208-948-11	METAL CHIP	360K	0.5%	1/16W
	R868	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R869	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R870	1-250-495-11	METAL CHIP	1K	1%	1/16W
	R871	1-248-473-11	METAL CHIP	0.068	1%	1/2W
	R872	1-245-453-11	METAL CHIP	0.047	1%	1/2W
	R878	1-216-296-11	SHORT CHIP	0		
	R888	1-216-864-11	SHORT CHIP	0		
	R890	1-216-864-11	SHORT CHIP	0		
	R892	1-216-864-11	SHORT CHIP	0		
	R894	1-218-974-11	METAL CHIP	56K	5%	1/16W
	R1001	1-216-296-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R1002	1-216-296-11	SHORT CHIP	0		
R1003	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1004	1-218-941-81	METAL CHIP	100	5%	1/16W
R1005	1-218-941-81	METAL CHIP	100	5%	1/16W
R1006	1-218-941-81	METAL CHIP	100	5%	1/16W
R1007	1-218-990-81	SHORT CHIP	0		
R1010	1-218-990-81	SHORT CHIP	0		
R1011	1-218-990-81	SHORT CHIP	0		
R1012	1-216-864-11	SHORT CHIP	0		
R1013	1-218-990-81	SHORT CHIP	0		
R1014	1-218-941-81	METAL CHIP	100	5%	1/16W
R1015	1-218-933-11	METAL CHIP	22	5%	1/16W
R1016	1-216-809-11	METAL CHIP	100	5%	1/10W
R1017	1-218-933-11	METAL CHIP	22	5%	1/16W
R1018	1-216-809-11	METAL CHIP	100	5%	1/10W
R1019	1-218-941-81	METAL CHIP	100	5%	1/16W
R1020	1-216-809-11	METAL CHIP	100	5%	1/10W
R1021	1-216-809-11	METAL CHIP	100	5%	1/10W
R1023	1-218-941-81	METAL CHIP	100	5%	1/16W
R1024	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1025	1-218-941-81	METAL CHIP	100	5%	1/16W
R1028	1-218-990-81	SHORT CHIP	0		
R1029	1-218-990-81	SHORT CHIP	0		
R1030	1-218-941-81	METAL CHIP	100	5%	1/16W
R1031	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R1032	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1033	1-218-967-11	METAL CHIP	15K	5%	1/16W
R1035	1-218-990-81	SHORT CHIP	0		
R1036	1-218-951-11	METAL CHIP	680	5%	1/16W
R1037	1-218-937-11	METAL CHIP	47	5%	1/16W
R1040	1-250-525-11	METAL CHIP	18K	1%	1/16W
R1052	1-216-864-11	SHORT CHIP	0		
R1055	1-216-864-11	SHORT CHIP	0		
R1056	1-216-864-11	SHORT CHIP	0		
R1090	1-218-990-81	SHORT CHIP	0		
R1117	1-218-990-81	SHORT CHIP	0		
R1145	1-216-296-11	SHORT CHIP	0		
R1173	1-216-296-11	SHORT CHIP	0		
R1300	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1301	1-250-640-11	METAL CHIP	10K	1%	1/10W
R1302	1-250-668-11	METAL CHIP	150K	1%	1/10W
R1303	1-216-809-11	METAL CHIP	100	5%	1/10W
R1304	1-250-654-11	METAL CHIP	39K	1%	1/10W
R1306	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1307	1-250-519-11	METAL CHIP	10K	1%	1/16W
R1309	1-250-541-11	METAL CHIP	82K	1%	1/16W
R1310	1-250-541-11	METAL CHIP	82K	1%	1/16W
R1311	1-250-664-11	METAL CHIP	100K	1%	1/10W
R1312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1313	1-216-864-11	SHORT CHIP	0		
R1314	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1317	1-216-864-11	SHORT CHIP	0		
R1318	1-246-184-81	METAL CHIP	2.43K	0.5%	1/16W
R1320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1333	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1334	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1350	1-216-864-11	SHORT CHIP	0		
R1353	1-218-989-11	METAL CHIP	1M	5%	1/16W

Note 1: When the front panel (SV) (assy) (Ref. No. FP1) is replaced, the Bluetooth information writing and affixing of label (serial number) is necessary. Refer to "AFFIXING OF LABEL (SERIAL NUMBER)" and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

Ref. No.	Part No.	Description			Remark
R1354	1-216-296-11	SHORT CHIP	0		
R1355	1-216-864-11	SHORT CHIP	0		
R1358	1-216-864-11	SHORT CHIP	0		
R1359	1-216-864-11	SHORT CHIP	0		
* R1361	1-250-513-11	METAL CHIP	5.6K	1%	1/16W
		< TUNER UNIT >			
TU01	A-1946-531-A	TUX-DSP03 (TUNER UNIT)			
		< VIBRATOR >			
X501	1-814-485-11	QUARTZ CRYSTAL UNIT (48 MHz)			
X502	1-814-767-11	QUARTZ CRYSTAL UNITS (13.333 MHz)			
X503	1-814-777-11	QUARTZ CRYSTAL UNITS (32.768 kHz)			
X701	1-814-778-11	QUARTZ CRYSTAL UNITS (16.9344 MHz)			
X1300	1-814-367-11	QUARTZ CRYSTAL UNITS (30 MHz)			

****

REGULATOR BOARD
****

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C002	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
C003	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
		< IC >			
IC001	6-719-012-01	IC S-13A1A12-E6T1U3			

****

MISCELLANEOUS
****

Ref. No.	Part No.	Description
BT1	1-754-894-21	BT, ANTENNA
CNC1	1-846-892-21	CONNECTION CABLE (AUTOMOBILE) ( )
FFC1	1-846-819-31	CABLE FLEXIBLE FLAT (27 CORE) (Length: 150 mm) (See Note 3)
FFC1	1-846-819-41	CABLE FLEXIBLE FLAT (27 CORE) (Length: 80 mm) (See Note 3)
FP1	A-2037-605-A	PANEL (SV) (ASSY) FRONT (See Note 1)
FU1	1-523-227-11	MINI FUSE (BLADE TYPE) (10 A/32 V)
MIC1001	1-542-919-11	MICROPHONE
NFC1	X-2588-698-1	KNOB (VOL) (SV) ASSY (See Note 2)
PW1	1-846-979-11	CONNECTION CABLE, AUTOMOBILE (POWER)

****

ACCESSORIES
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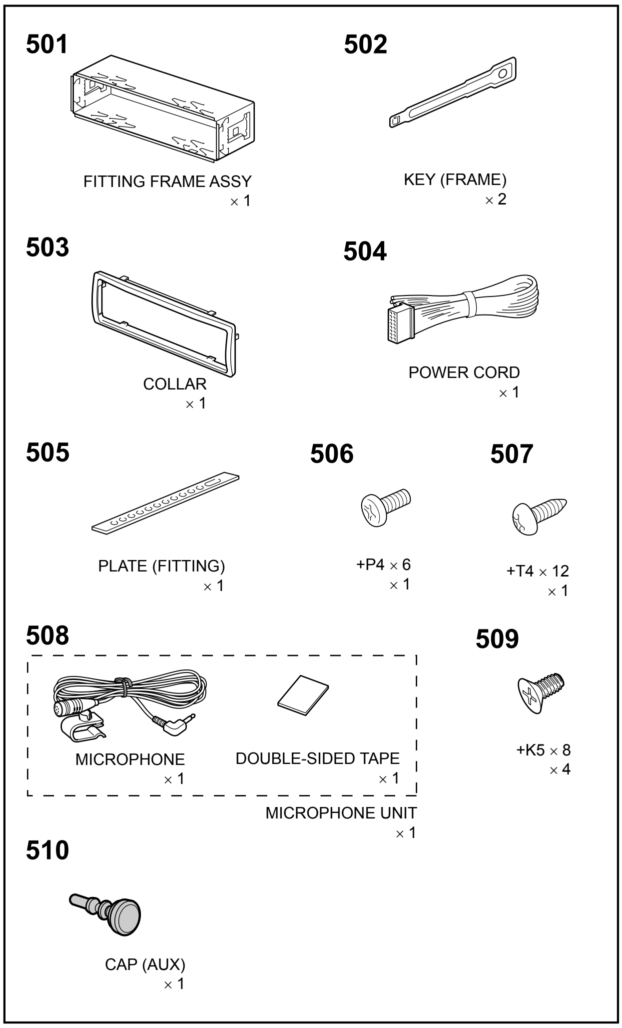
Ref. No.	Part No.	Description
	1-489-810-42	REMOTE COMMANDER (RM-X231)
	4-489-404-14	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH)
	4-489-405-12	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH)

****

Note 2: When the knob (VOL) (SV) assy (Ref. No. NPC1) is replaced, Bluetooth information writing is necessary. Refer to "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

Note 3: The length of cable flexible flat (27 core) has been changed from 150 mm to 80 mm in the midway of production.
When replacing the part of Ref. No. FFC1, use the part of the same length as before replacing.

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**************************************	
501	X-2583-962-1	FRAME ASSY, FITTING	
502	4-276-003-02	KEY (FRAME) (1 piece)	
503	4-461-753-01	COLLAR	
504	1-846-979-11	CONNECTION CABLE, AUTOMOBILE (POWER)	
505	2-889-508-01	PLATE (FITTING)	
506	7-682-160-01	SCREW +P 4X6	
507	3-915-917-01	SCREW, +T 4X12	
508	1-542-986-11	MICROPHONE UNIT (Including DOUBLE-SIDED TAPE)	
509	3-934-325-21	SCREW, +K (5X8) TAPPING (1 piece)	
510	2-683-516-01	CAP (AUX)	



MEMO

MEX-M70BT

SONY®

US Model
Canadian Model

SERVICE MANUAL

Ver. 1.1 2014.04

SUPPLEMENT-1

File this supplement with the service manual.

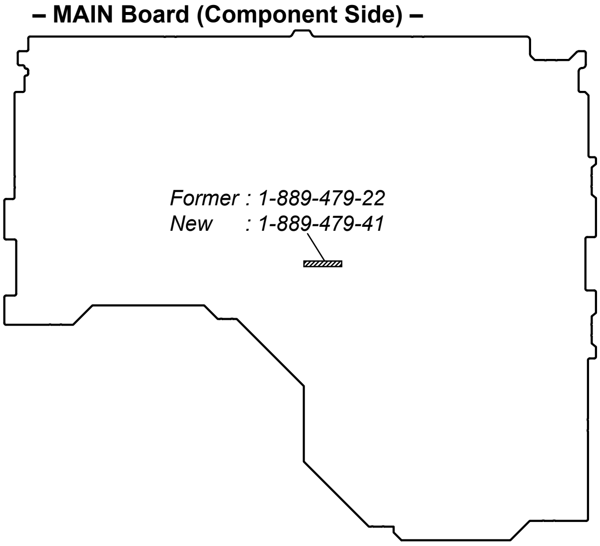
Subject: Change of MAIN board (Suffix-41)
Deletion of REGULATOR board

The MAIN board has been changed in the midway of production.
Moreover, REGULATOR board has been deleted with change of MAIN board.
Discrimination, printed wiring board, schematic diagram and electrical parts list of the MAIN board of New type are described in this service manual SUPPLEMENT-1.
Refer to original service manual for information of Former type.

1. NEW/FORMER DISCRIMINATION

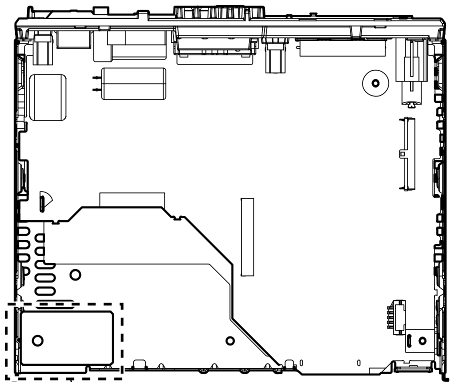
- Distinguish by the part number of the silk print.

– MAIN Board (Component Side) –



- Distinguish by the availability of the REGULATOR board.

– Top view –



9-893-929-81

2. DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

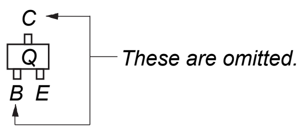
Note:

- : Parts extracted from the component side.
- : Parts extracted from the conductor side.
- △ : Internal component.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8 on original service manual.

For Schematic Diagrams.

Note:

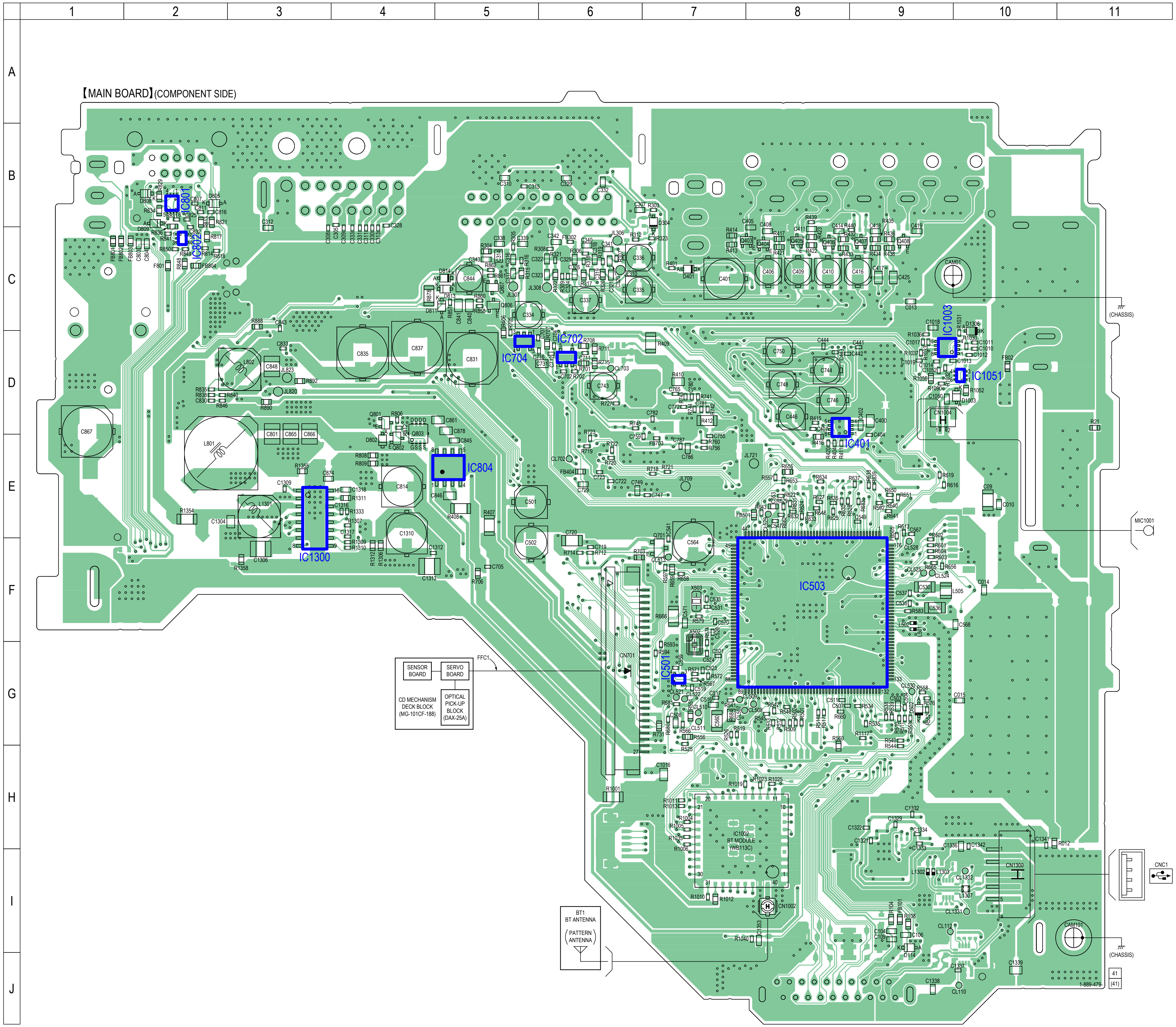
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- : Panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM)
  ( ): CD PLAY
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : AUDIO
  : TUNER
  : SIRIUS/XM
  : CD PLAY
  : USB
  : AUX
  : Bluetooth
  : MIC

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8 on original service manual.

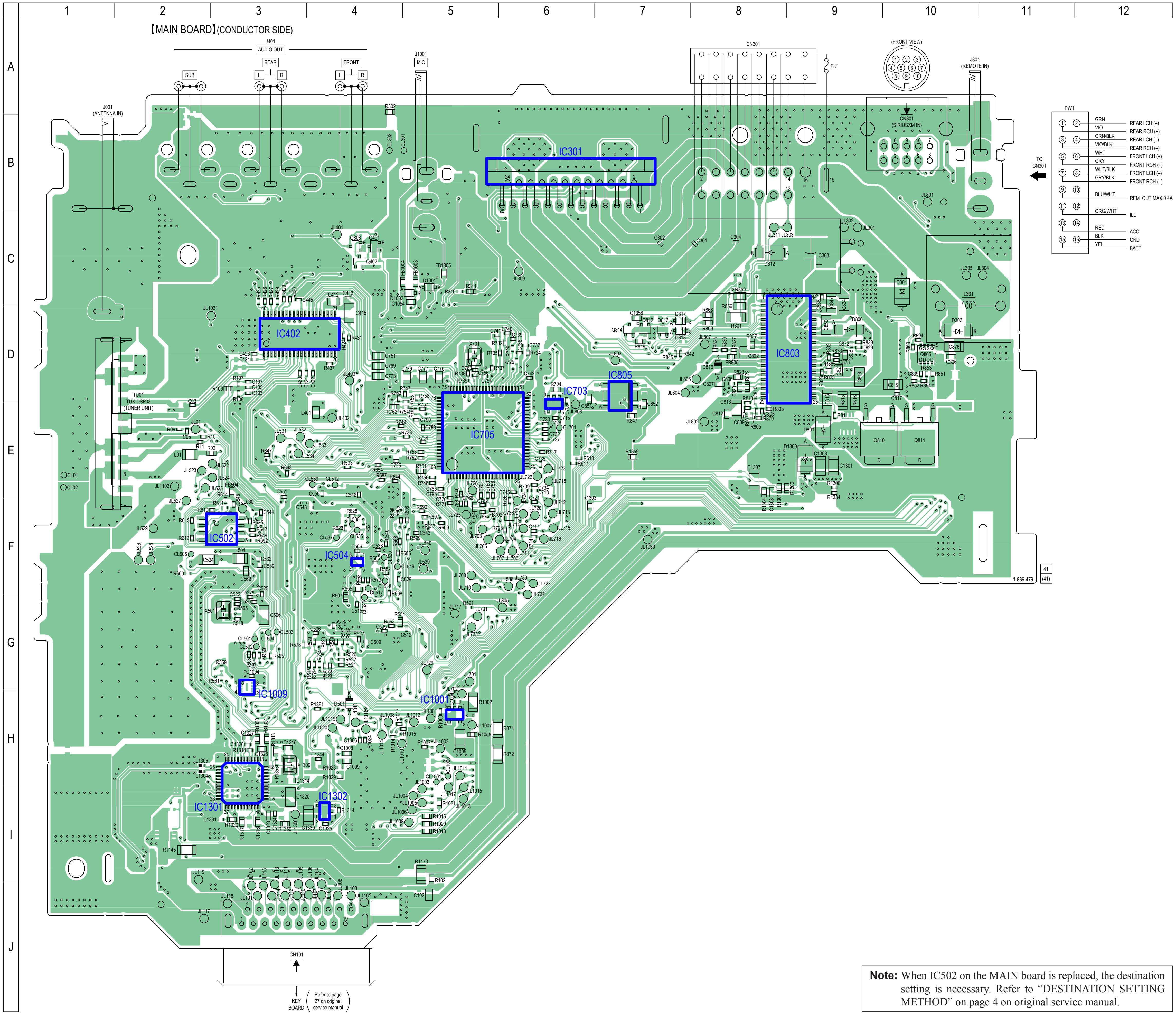
2-1. PRINTED WIRING BOARD - MAIN Board (Component Side) - • : Uses unleaded solder.



Note 1: IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

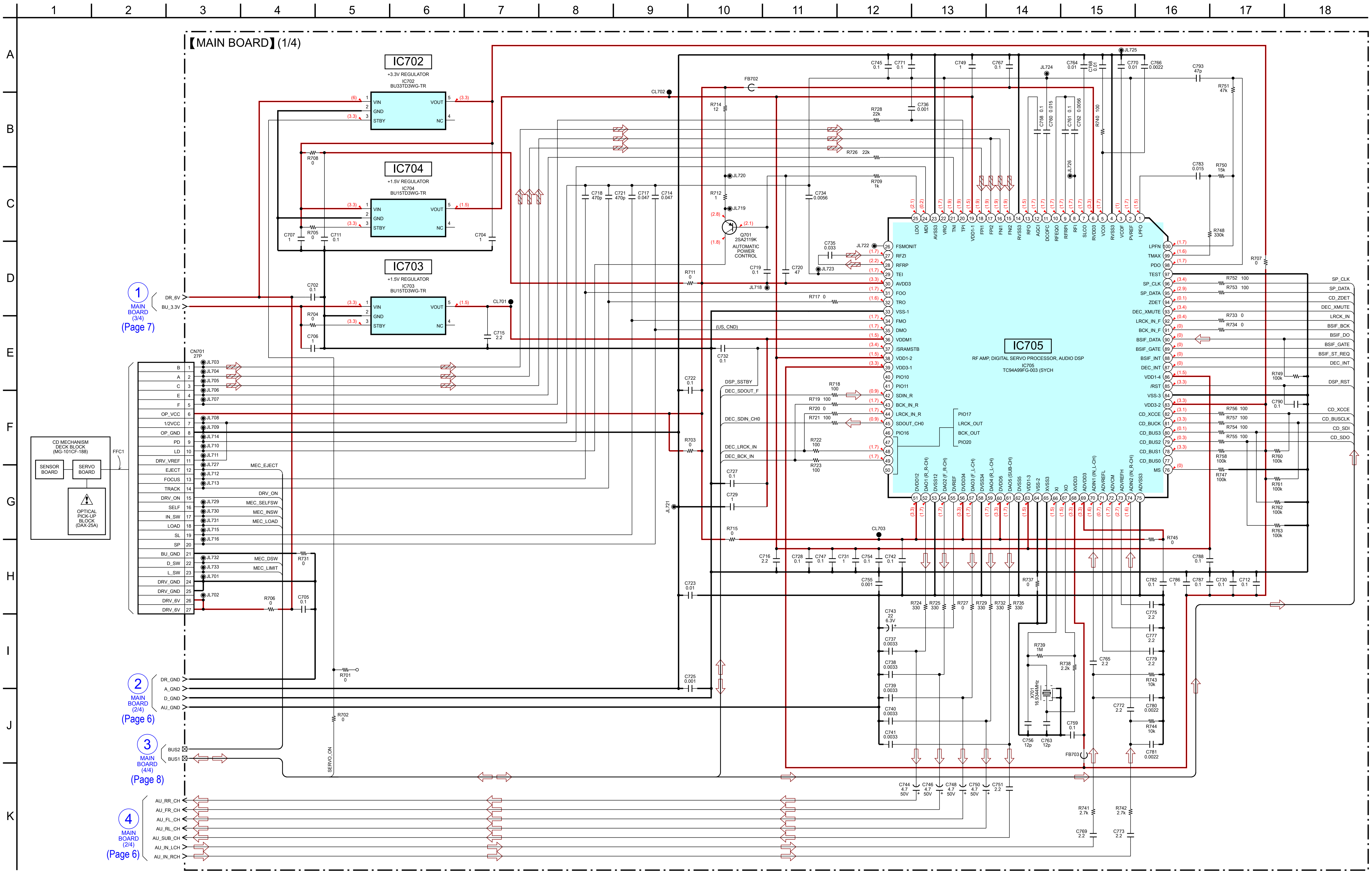
Note 2: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

2-2. PRINTED WIRING BOARD - MAIN Board (Conductor Side) - • : Uses unleaded solder.



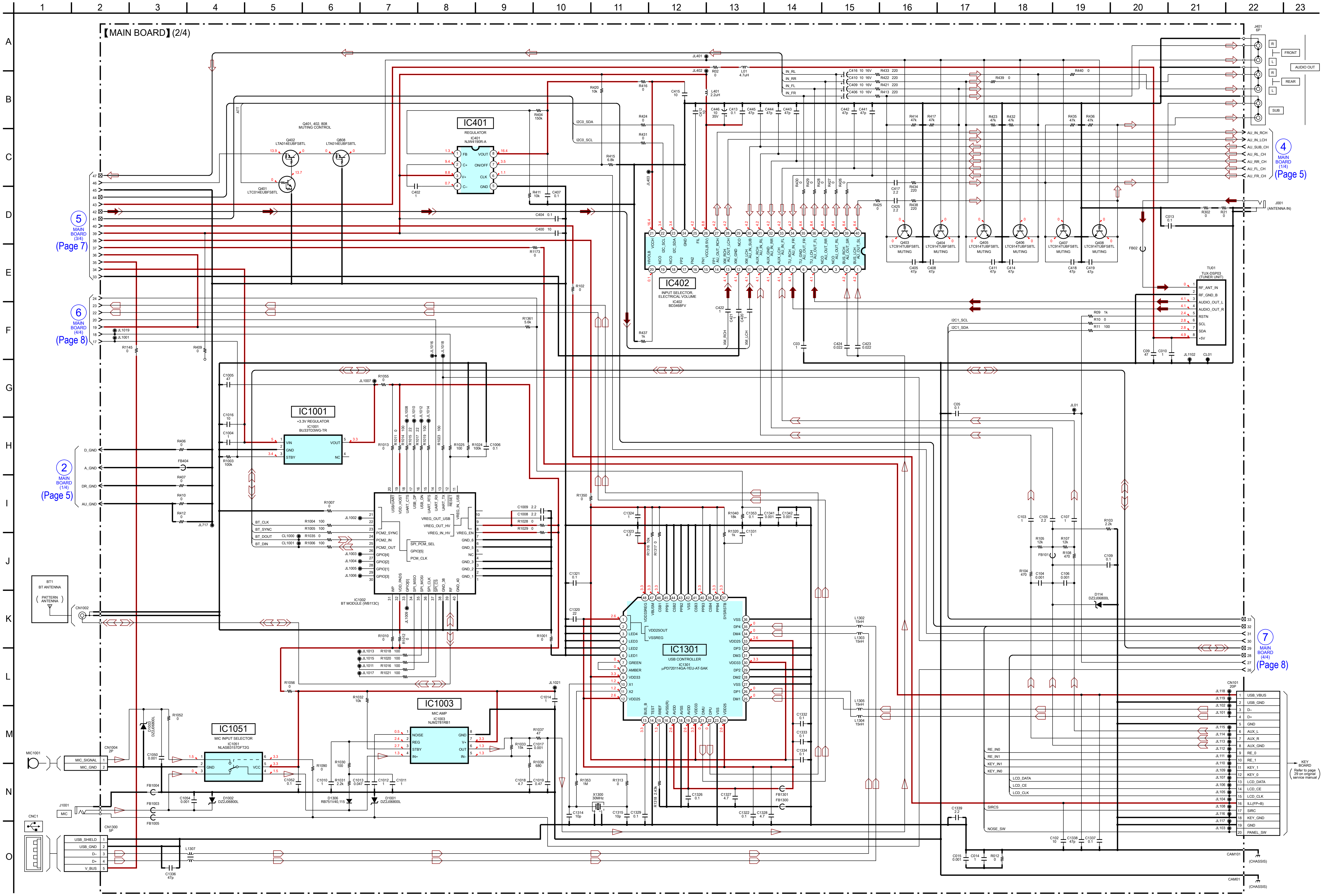
Note: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4 on original service manual.

2-3. SCHEMATIC DIAGRAM - MAIN Board (1/4) -



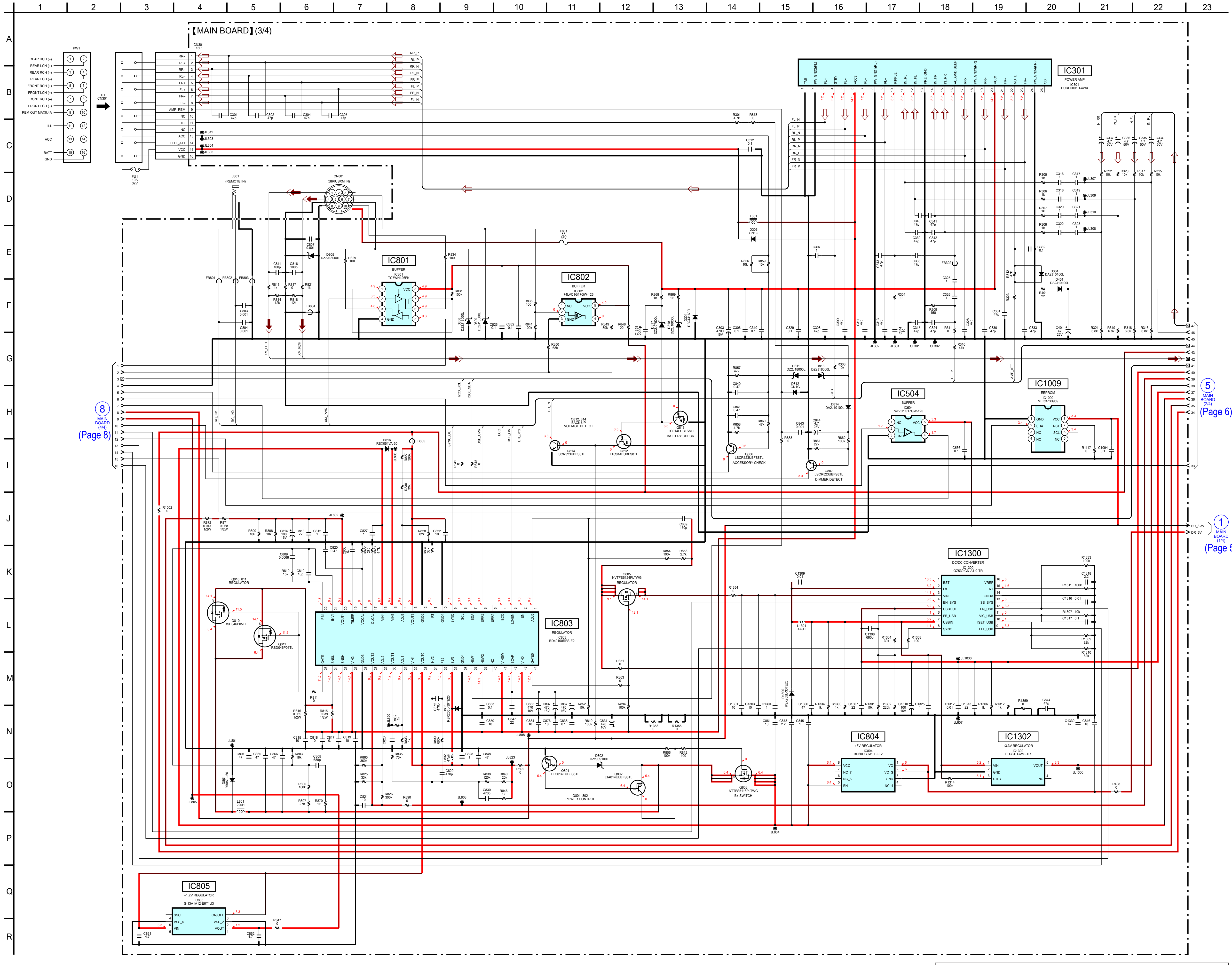
Note: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

2-4. SCHEMATIC DIAGRAM - MAIN Board (2/4) -



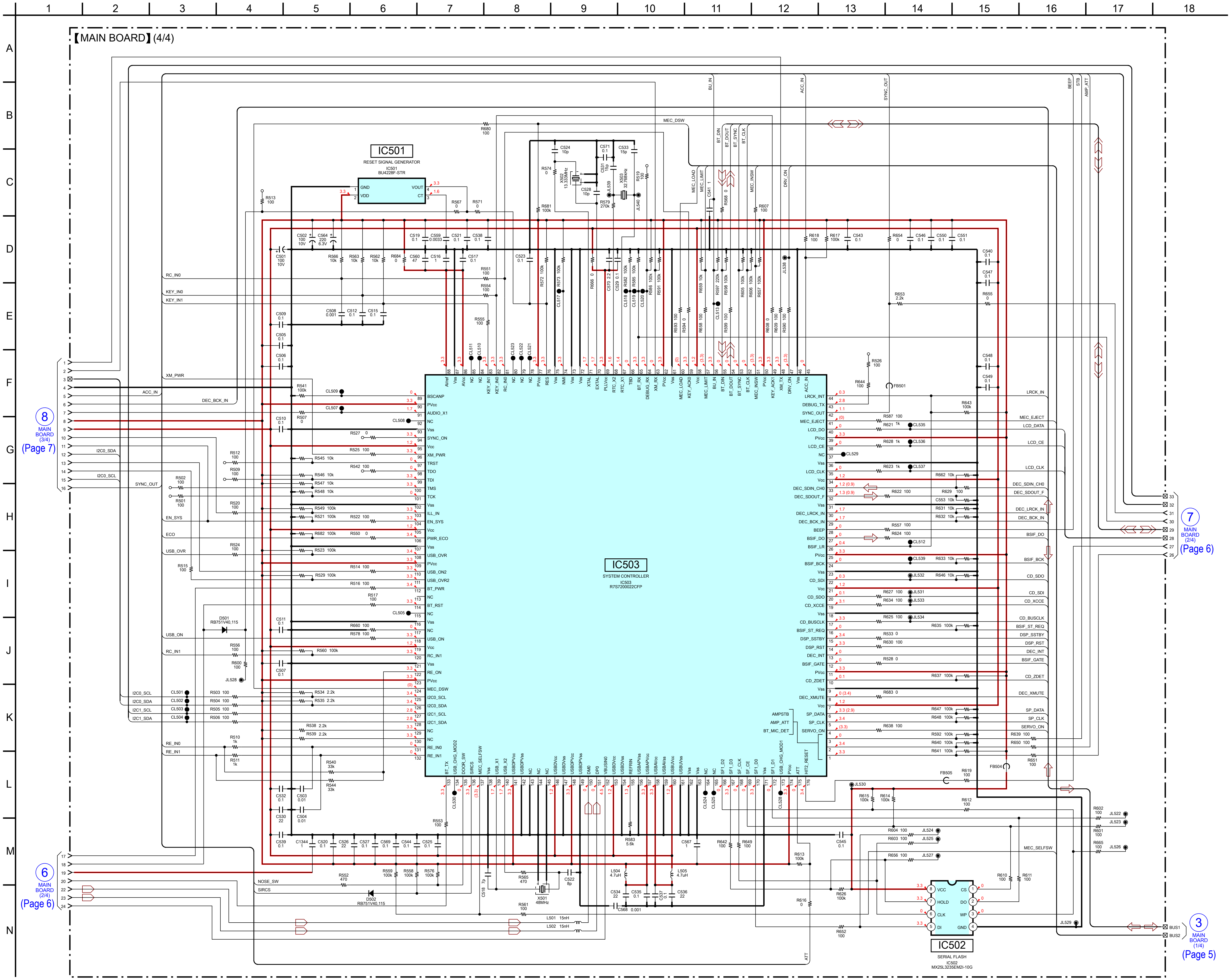
Note: IC1002 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

2-5. SCHEMATIC DIAGRAM - MAIN Board (3/4) -



Note: IC804 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

2-6. SCHEMATIC DIAGRAM - MAIN Board (4/4) -



Note: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4 on original service manual.

3. ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . , uPA. . , μPA. . ,
  uPB. . : μPB. . , uPC. . , μPC. . ,
  uPD. . : μPD. .

When indicating parts by reference number, please include the board name.

	Ref. No.	Part No.	Description				Remark
		A-2033-096-B	MAIN BOARD, COMPLETE (See Note)				
			********************				
		7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT				
		7-685-794-01	SCREW +PTT 2.6X10 (S)				
			< CAPACITOR/RESISTOR >				
*	C03	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
	C05	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
	C09	1-116-707-11	CERAMIC CHIP	47uF	20%	10V	
	C010	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C013	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
	C014	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C015	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
	C102	1-116-716-11	CERAMIC CHIP	10uF	10%	16V	
*	C103	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
	C104	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	
	C105	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V	
	C106	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	
*	C107	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
	C109	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C301	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C302	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C303	1-112-839-11	ELECT	4700uF	20%	16V	
	C304	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C305	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C306	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
	C307	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C308	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C309	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C310	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C311	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C312	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C313	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C314	1-118-930-11	CERAMIC CHIP	10uF	10%	10V	
	C315	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C316	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C317	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C318	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C319	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C320	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C321	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C322	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C323	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C324	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C325	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	

	Ref. No.	Part No.	Description				Remark
	C326	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C328	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C329	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C330	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C331	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C332	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
	C333	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C334	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
	C335	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
	C336	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
	C337	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
	C338	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C339	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C340	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C341	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C342	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C343	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C400	1-118-047-11	CERAMIC CHIP	10uF	10%	16V	
	C401	1-128-992-21	ELECT CHIP	47uF	20%	25V	
	C402	1-114-813-11	CERAMIC CHIP	1uF	10%	16V	
	C404	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
	C405	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C406	1-124-779-00	ELECT CHIP	10uF	20%	16V	
*	C407	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	
	C408	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C409	1-124-779-00	ELECT CHIP	10uF	20%	16V	
	C410	1-124-779-00	ELECT CHIP	10uF	20%	16V	
	C411	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C412	1-100-966-91	CERAMIC CHIP	10uF	20%	10V	
	C413	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
	C414	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C415	1-116-865-11	CERAMIC CHIP	10uF	10%	25V	
	C416	1-124-779-00	ELECT CHIP	10uF	20%	16V	
	C417	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V	
	C418	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C419	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
*	C420	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
*	C421	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
*	C422	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
	C423	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V	
	C424	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V	
	C425	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V	
	C441	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C442	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
	C443	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8 on original service manual.

MAIN

Ref. No.	Part No.	Description				Remark
C444	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
C445	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	
C446	1-114-599-21	ELECT CHIP	10uF	20%	35V	
C501	1-165-492-21	ELECT CHIP	100uF	20%	10V	
C502	1-165-492-21	ELECT CHIP	100uF	20%	10V	
C503	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
C504	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
C505	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C506	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C507	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C508	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	
C509	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C510	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C511	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C512	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C515	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C517	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C518	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V	
C519	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C520	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C521	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C522	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V	
C523	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C524	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V	
C525	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C526	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	
C527	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C528	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V	
C529	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C530	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	
C531	1-164-854-11	CERAMIC CHIP	15PF	5%	50V	
C532	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C533	1-164-854-11	CERAMIC CHIP	15PF	5%	50V	
C534	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	
C535	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C536	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	
C537	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C538	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C539	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C540	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C541	1-116-737-11	CERAMIC CHIP	1uF	20%	10V	
C543	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C544	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C545	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C546	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C547	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C548	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C549	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C550	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C551	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C553	1-216-833-11	METAL CHIP	10K	5%	1/10W	
C559	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V	
C560	1-116-707-11	CERAMIC CHIP	47uF	20%	10V	
C564	1-100-354-21	ELECT CHIP	220uF	20%	6.3V	
C566	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
* C567	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
C568	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C569	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
C570	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V	

Ref. No.	Part No.	Description				Remark
C571	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
C702	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
* C704	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
C705	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
* C706	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
* C707	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V	
C711	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C712	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C714	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V	
C715	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V	
C716	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V	
C717	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V	
* C718	1-118-407-11	CERAMIC CHIP	470PF	10%	50V	
C719	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C720	1-116-707-11	CERAMIC CHIP	47uF	20%	10V	
* C721	1-118-407-11	CERAMIC CHIP	470PF	10%	50V	
C722	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C723	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
C725	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	
C727	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C728	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C729	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C730	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C731	1-116-733-11	CERAMIC CHIP	1uF	10%	25V	
C732	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C734	1-118-394-11	CERAMIC CHIP	0.0056uF	10%	50V	
C735	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V	
C736	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C737	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V	
C738	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V	
C739	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V	
C740	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V	
C741	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V	
C742	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C743	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C744	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
C745	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C746	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
C747	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C748	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
C749	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C750	1-128-996-11	ELECT CHIP	4.7uF	20%	50V	
C751	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V	
C754	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C755	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	
C756	1-164-852-11	CERAMIC CHIP	12PF	5%	50V	
C758	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C759	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C760	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V	
C761	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C762	1-100-579-81	CERAMIC CHIP	0.0056uF	10%	25V	
C763	1-164-852-11	CERAMIC CHIP	12PF	5%	50V	
C764	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
C765	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V	
C766	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V	
C767	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	
C768	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
C769	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V	
C770	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
C771	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	

	Ref. No.	Part No.	Description			Remark
	C772	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C773	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C775	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C777	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C779	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C780	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C781	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C782	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C783	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
	C786	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C787	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C788	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C790	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C793	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C801	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C803	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C804	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C805	1-118-405-11	CERAMIC CHIP	680PF	10%	50V
	C806	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C807	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C809	1-118-393-11	CERAMIC CHIP	0.0068uF	10%	50V
	C810	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C811	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C812	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C813	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C814	1-135-366-11	ELECT CHIP	100uF	20%	16V
	C815	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C816	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C817	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C818	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C819	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C820	1-116-740-11	CERAMIC CHIP	0.47uF	10%	16V
	C821	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C822	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
*	C823	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C825	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C827	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C828	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
*	C829	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
*	C830	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C831	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C832	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C833	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C834	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C835	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C837	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C838	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C839	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
	C840	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
	C841	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
	C843	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C844	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
	C845	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C846	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C847	1-118-955-11	CERAMIC CHIP	22uF	20%	16V
	C848	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C850	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C851	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C852	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C861	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C865	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C866	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C867	1-100-769-21	ELECT CHIP	470uF	20%	16V
*	C872	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C874	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C876	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C878	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C1004	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C1005	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C1006	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1008	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
	C1009	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
*	C1010	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C1011	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C1012	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1013	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
*	C1014	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1016	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C1017	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C1018	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
	C1019	1-116-741-11	CERAMIC CHIP	0.47uF	20%	10V
	C1050	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C1052	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1054	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C1094	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1301	1-118-932-11	CERAMIC CHIP	10uF	10%	16V
	C1303	1-118-932-11	CERAMIC CHIP	10uF	10%	16V
	C1304	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
	C1306	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C1307	1-118-931-11	CERAMIC CHIP	22uF	10%	10V
	C1308	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
	C1309	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C1310	1-135-366-11	ELECT CHIP	100uF	20%	16V
	C1312	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C1313	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
	C1314	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C1315	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C1316	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C1317	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1318	1-118-278-91	CERAMIC CHIP	2.2uF	10%	10V
	C1320	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
	C1321	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1322	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1323	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1324	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
*	C1325	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1326	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1327	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1328	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1329	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1330	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C1331	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C1332	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1333	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1334	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1336	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C1337	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1338	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C1339	1-118-045-11	CERAMIC CHIP	2.2uF	10%	25V
	C1341	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description	Remark
C1342	1-118-403-11	CERAMIC CHIP 0.001uF 10%	50V
* C1344	1-116-738-11	CERAMIC CHIP 1uF 10%	6.3V
C1353	1-118-361-11	CERAMIC CHIP 0.1uF 10%	50V
C1358	1-162-966-91	CERAMIC CHIP 0.0022uF 10%	50V
		< CONNECTOR >	
CN101	1-842-266-22	SOCKET, CONNECTOR 20P	
CN301	1-843-330-11	PIN, CONNECTOR 16P	
CN701	1-843-775-11	CONNECTOR, FFC/FPC (ZIF) 27P	
CN801	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN)	
CN1002	1-821-559-11	CONNECTOR, COAXIAL (SMT TYPE)	
CN1004	1-784-650-21	CONNECTOR 2P	
CN1300	1-779-993-11	PIN, CONNECTOR (PWB) 5P	
		< DIODE >	
D114	6-502-969-01	DIODE DZ2J06800L	
D301	6-503-548-01	DIODE DB2441600L	
D303	6-503-238-01	DIODE GN1G	
D304	6-502-961-01	DIODE DA2J10100L	
D401	6-502-961-01	DIODE DA2J10100L	
D501	6-503-759-01	DIODE RB751V40, 115	
D502	6-503-759-01	DIODE RB751V40, 115	
D801	6-504-041-01	DIODE RB050L-60	
D802	6-502-972-01	DIODE DZ2J09100L	
D805	6-503-031-01	DIODE DZ2J18000L	
* D806	6-503-973-01	DIODE RSX205L-30TE25	
D808	6-503-031-01	DIODE DZ2J18000L	
D809	6-503-031-01	DIODE DZ2J18000L	
D811	6-503-031-01	DIODE DZ2J18000L	
D812	6-503-238-01	DIODE GN1G	
D813	6-503-031-01	DIODE DZ2J18000L	
D814	6-502-961-01	DIODE DA2J10100L	
D816	6-504-047-01	DIODE RSX051VA-30	
D817	6-503-016-01	DIODE DZ2J07500L	
D818	6-503-031-01	DIODE DZ2J18000L	
D1001	6-502-969-01	DIODE DZ2J06800L	
D1002	6-502-969-01	DIODE DZ2J06800L	
D1003	6-502-969-01	DIODE DZ2J06800L	
* D1300	6-503-973-01	DIODE RSX205L-30TE25	
D1306	6-503-759-01	DIODE RB751V40, 115	
		< FUSE >	
F801	1-576-415-11	FUSE (2 A/32 V)	
		< FERRITE BEAD >	
FB02	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB101	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB302	1-481-746-11	SDM EMI FERRITE	
FB404	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB501	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB504	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB505	1-400-823-11	EMI FERRITE (SMD) (1005)	
FB702	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB703	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB804	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB805	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1003	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1004	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1005	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1300	1-469-094-21	FERRITE, EMI (SMD) (1608)	
FB1301	1-469-094-21	FERRITE, EMI (SMD) (1608)	
		< IC/BT MODULE >	
IC301	6-720-774-01	IC PURE5001H-4WX	
IC401	6-721-140-01	IC NJW4190R-A (TE2)	
IC402	6-721-168-01	IC BD3468FV-E2	
IC501	6-719-855-01	IC BU4228F-STR	
IC502	6-721-462-01	IC MX25L3235EM2I-10G-A01 (for SERVICE) (See Note 1)	
IC503	6-721-336-01	IC R7S7200022CFP	
IC504	6-710-376-01	IC 74LVC1G17GW-125	
IC702	6-717-694-01	IC BU33TD3WG-TR	
IC703	6-716-355-01	IC BU15TD3WG-TR	
IC704	6-716-355-01	IC BU15TD3WG-TR	
IC705	6-715-712-11	IC TC94A99FG-003 (SYCH	
IC801	6-709-182-01	IC TC7WH126FK	
IC802	6-710-376-01	IC 74LVC1G17GW-125	
IC803	6-721-184-01	IC BD49100RFS-E2	
IC804	(Not supplied)	IC BD60HC0WEFJ-E2 (See Note 2)	
IC805	6-719-012-01	IC S-13A1A12-E6T1U3	
IC1001	6-717-694-01	IC BU33TD3WG-TR	
IC1002	(Not supplied)	BT MODULE (WB113C) (See Note 2)	
IC1003	6-703-863-01	IC NJM2781RB1	
IC1009	6-718-324-01	IC MFI337S3959	
IC1051	6-716-858-01	IC NLASB3157DFT2G	
IC1300	6-718-913-01	IC OZ539IGN-A1-0-TR	
IC1301	6-718-416-01	IC uPD720114GA-YEU-AT-SAK	
IC1302	6-717-694-01	IC BU33TD3WG-TR	
		< JACK >	
J001	1-843-791-11	JACK (ANT) (ANTENNA IN)	
J401	1-822-714-21	JACK, PIN 6P (FRONT/REAR/SUB AUDIO OUT)	
J801	1-566-822-81	JACK (REMOTE IN)	
J1001	1-566-822-91	JACK (MIC)	
		< COIL >	
L01	1-400-073-21	INDUCTOR 4.7uH	
L301	1-456-617-11	COIL, CHOKE	
L401	1-469-844-11	INDUCTOR 2.2uH	
L501	1-414-842-21	INDUCTOR 15nH	
L502	1-414-842-21	INDUCTOR 15nH	
L504	1-400-073-21	INDUCTOR 4.7uH	
L505	1-400-073-21	INDUCTOR 4.7uH	
L801	1-460-704-11	COIL, CHOKE 22uH	
L802	1-481-904-11	INDUCTOR 47uH	
L1301	1-481-904-11	INDUCTOR 47uH	
L1302	1-414-842-21	INDUCTOR 15nH	
L1303	1-414-842-21	INDUCTOR 15nH	
L1304	1-414-842-21	INDUCTOR 15nH	
L1305	1-414-842-21	INDUCTOR 15nH	
L1307	1-457-223-11	COMMON MODE CHOKE COIL	
		< TRANSISTOR >	
Q401	6-552-936-01	TRANSISTOR LTC014EUBFS8TL	
Q402	6-552-922-01	TRANSISTOR LTA014EUBFS8TL	
Q403	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	
Q404	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	

Note 1: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to “DESTINATION SETTING METHOD” on page 4 on original service manual.

Note 2: IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Ref. No.	Part No.	Description			Remark
Q405	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL		
Q406	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL		
Q407	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL		
Q408	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL		
Q701	6-551-120-01	TRANSISTOR	2SA2119K		
Q801	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL		
Q802	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL		
Q803	6-553-498-01	FET	NTTFS5116PLTWG		
Q805	6-553-497-01	FET	NVTFS5124PLTWG		
Q806	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL		
Q807	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL		
Q808	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL		
Q810	6-553-496-01	FET	RSD046P05TL		
Q811	6-553-496-01	FET	RSD046P05TL		
Q812	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL		
Q813	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL		
Q814	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL		
		< RESISTOR >			
R02	1-216-864-11	SHORT CHIP	0		
R09	1-218-953-11	METAL CHIP	1K	5%	1/16W
R10	1-218-990-81	SHORT CHIP	0		
R11	1-218-941-81	METAL CHIP	100	5%	1/16W
R012	1-216-864-11	SHORT CHIP	0		
R21	1-216-864-11	SHORT CHIP	0		
R102	1-216-864-11	SHORT CHIP	0		
R103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R104	1-216-817-11	METAL CHIP	470	5%	1/10W
R105	1-218-966-11	METAL CHIP	12K	5%	1/16W
R107	1-218-966-11	METAL CHIP	12K	5%	1/16W
R108	1-216-817-11	METAL CHIP	470	5%	1/10W
R301	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R302	1-216-864-11	SHORT CHIP	0		
R303	1-218-965-11	METAL CHIP	10K	5%	1/16W
R304	1-216-864-11	SHORT CHIP	0		
R305	1-218-953-11	METAL CHIP	1K	5%	1/16W
R306	1-218-953-11	METAL CHIP	1K	5%	1/16W
R307	1-218-953-11	METAL CHIP	1K	5%	1/16W
R308	1-218-953-11	METAL CHIP	1K	5%	1/16W
R309	1-218-943-11	METAL CHIP	150	5%	1/16W
R310	1-218-973-11	METAL CHIP	47K	5%	1/16W
R311	1-216-864-11	SHORT CHIP	0		
R312	1-218-973-11	METAL CHIP	47K	5%	1/16W
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R316	1-250-515-11	METAL CHIP	6.8K	1%	1/16W
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R318	1-250-515-11	METAL CHIP	6.8K	1%	1/16W
R319	1-250-515-11	METAL CHIP	6.8K	1%	1/16W
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-250-515-11	METAL CHIP	6.8K	1%	1/16W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-218-990-81	SHORT CHIP	0		
R401	1-218-933-11	METAL CHIP	22	5%	1/16W
R404	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R406	1-216-864-11	SHORT CHIP	0		
R407	1-216-296-11	SHORT CHIP	0		
R408	1-216-296-11	SHORT CHIP	0		
R409	1-216-296-11	SHORT CHIP	0		
R410	1-216-295-91	SHORT CHIP	0		
R411	1-250-519-11	METAL CHIP	10K	1%	1/16W
R412	1-216-296-11	SHORT CHIP	0		
R413	1-250-600-11	METAL CHIP	220	1%	1/10W
R414	1-250-656-11	METAL CHIP	47K	1%	1/10W
R415	1-250-515-11	METAL CHIP	6.8K	1%	1/16W
R416	1-216-864-11	SHORT CHIP	0		
R417	1-250-656-11	METAL CHIP	47K	1%	1/10W
R420	1-250-519-11	METAL CHIP	10K	1%	1/16W
R421	1-250-600-11	METAL CHIP	220	1%	1/10W
R422	1-250-600-11	METAL CHIP	220	1%	1/10W
R423	1-250-656-11	METAL CHIP	47K	1%	1/10W
R424	1-218-990-81	SHORT CHIP	0		
R425	1-218-990-81	SHORT CHIP	0		
R426	1-218-990-81	SHORT CHIP	0		
R427	1-218-990-81	SHORT CHIP	0		
R428	1-218-990-81	SHORT CHIP	0		
R429	1-218-990-81	SHORT CHIP	0		
R430	1-218-990-81	SHORT CHIP	0		
R431	1-218-990-81	SHORT CHIP	0		
R432	1-250-656-11	METAL CHIP	47K	1%	1/10W
R433	1-250-600-11	METAL CHIP	220	1%	1/10W
R434	1-250-600-11	METAL CHIP	220	1%	1/10W
R435	1-250-656-11	METAL CHIP	47K	1%	1/10W
R436	1-250-656-11	METAL CHIP	47K	1%	1/10W
R437	1-218-953-11	METAL CHIP	1K	5%	1/16W
R438	1-250-600-11	METAL CHIP	220	1%	1/10W
R439	1-218-990-81	SHORT CHIP	0		
R440	1-218-990-81	SHORT CHIP	0		
R501	1-218-941-81	METAL CHIP	100	5%	1/16W
R502	1-218-941-81	METAL CHIP	100	5%	1/16W
R503	1-218-941-81	METAL CHIP	100	5%	1/16W
R504	1-218-941-81	METAL CHIP	100	5%	1/16W
R505	1-218-941-81	METAL CHIP	100	5%	1/16W
R506	1-218-941-81	METAL CHIP	100	5%	1/16W
R507	1-216-864-11	SHORT CHIP	0		
R509	1-218-941-81	METAL CHIP	100	5%	1/16W
R510	1-218-953-11	METAL CHIP	1K	5%	1/16W
R511	1-218-953-11	METAL CHIP	1K	5%	1/16W
R512	1-218-941-81	METAL CHIP	100	5%	1/16W
R513	1-218-941-81	METAL CHIP	100	5%	1/16W
R514	1-218-941-81	METAL CHIP	100	5%	1/16W
R515	1-218-941-81	METAL CHIP	100	5%	1/16W
R516	1-218-941-81	METAL CHIP	100	5%	1/16W
R517	1-218-941-81	METAL CHIP	100	5%	1/16W
R519	1-218-941-81	METAL CHIP	100	5%	1/16W
R520	1-218-941-81	METAL CHIP	100	5%	1/16W
R521	1-218-977-11	METAL CHIP	100K	5%	1/16W
R522	1-218-941-81	METAL CHIP	100	5%	1/16W
R523	1-218-977-11	METAL CHIP	100K	5%	1/16W
R524	1-218-941-81	METAL CHIP	100	5%	1/16W
R525	1-218-941-81	METAL CHIP	100	5%	1/16W
R526	1-218-941-81	METAL CHIP	100	5%	1/16W
R527	1-218-990-81	SHORT CHIP	0		
R528	1-218-990-81	SHORT CHIP	0		
R529	1-218-977-11	METAL CHIP	100K	5%	1/16W
R533	1-218-990-81	SHORT CHIP	0		
R534	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R535	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R538	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R539	1-218-957-11	METAL CHIP	2.2K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R540	1-218-971-81	METAL CHIP	33K	5%	1/16W
R541	1-218-977-11	METAL CHIP	100K	5%	1/16W
R542	1-218-941-81	METAL CHIP	100	5%	1/16W
R544	1-218-971-81	METAL CHIP	33K	5%	1/16W
R545	1-218-965-11	METAL CHIP	10K	5%	1/16W
R546	1-218-965-11	METAL CHIP	10K	5%	1/16W
R547	1-218-965-11	METAL CHIP	10K	5%	1/16W
R548	1-218-965-11	METAL CHIP	10K	5%	1/16W
R549	1-218-977-11	METAL CHIP	100K	5%	1/16W
R550	1-218-990-81	SHORT CHIP	0		
R551	1-216-809-11	METAL CHIP	100	5%	1/10W
R552	1-218-949-11	METAL CHIP	470	5%	1/16W
R553	1-218-941-81	METAL CHIP	100	5%	1/16W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-218-941-81	METAL CHIP	100	5%	1/16W
R558	1-218-977-11	METAL CHIP	100K	5%	1/16W
R559	1-218-977-11	METAL CHIP	100K	5%	1/16W
R560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R561	1-218-941-81	METAL CHIP	100	5%	1/16W
R562	1-250-519-11	METAL CHIP	10K	1%	1/16W
R563	1-250-519-11	METAL CHIP	10K	1%	1/16W
R565	1-218-949-11	METAL CHIP	470	5%	1/16W
R566	1-250-519-11	METAL CHIP	10K	1%	1/16W
R567	1-218-990-81	SHORT CHIP	0		
R568	1-218-990-81	SHORT CHIP	0		
R571	1-218-990-81	SHORT CHIP	0		
R572	1-218-977-11	METAL CHIP	100K	5%	1/16W
R573	1-218-977-11	METAL CHIP	100K	5%	1/16W
R574	1-218-990-81	SHORT CHIP	0		
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W
R578	1-218-941-81	METAL CHIP	100	5%	1/16W
R579	1-250-553-11	METAL CHIP	270K	1%	1/16W
R582	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R583	1-250-513-11	METAL CHIP	5.6K	1%	1/16W
R585	1-218-977-11	METAL CHIP	100K	5%	1/16W
R586	1-218-977-11	METAL CHIP	100K	5%	1/16W
R587	1-218-941-81	METAL CHIP	100	5%	1/16W
R590	1-218-941-81	METAL CHIP	100	5%	1/16W
R591	1-218-977-11	METAL CHIP	100K	5%	1/16W
R592	1-218-977-11	METAL CHIP	100K	5%	1/16W
R593	1-218-941-81	METAL CHIP	100	5%	1/16W
R594	1-218-990-81	SHORT CHIP	0		
R597	1-218-981-81	METAL CHIP	220K	5%	1/16W
R598	1-218-977-11	METAL CHIP	100K	5%	1/16W
R599	1-218-941-81	METAL CHIP	100	5%	1/16W
R600	1-218-941-81	METAL CHIP	100	5%	1/16W
R601	1-218-941-81	METAL CHIP	100	5%	1/16W
R602	1-218-941-81	METAL CHIP	100	5%	1/16W
R603	1-218-941-81	METAL CHIP	100	5%	1/16W
R604	1-218-941-81	METAL CHIP	100	5%	1/16W
R605	1-218-977-11	METAL CHIP	100K	5%	1/16W
R606	1-218-977-11	METAL CHIP	100K	5%	1/16W
R607	1-218-941-81	METAL CHIP	100	5%	1/16W
R608	1-218-990-81	SHORT CHIP	0		
R609	1-218-941-81	METAL CHIP	100	5%	1/16W
R610	1-218-941-81	METAL CHIP	100	5%	1/16W
R611	1-218-941-81	METAL CHIP	100	5%	1/16W
R612	1-218-941-81	METAL CHIP	100	5%	1/16W
R613	1-218-977-11	METAL CHIP	100K	5%	1/16W
R614	1-218-977-11	METAL CHIP	100K	5%	1/16W
R615	1-218-977-11	METAL CHIP	100K	5%	1/16W
R616	1-218-990-81	SHORT CHIP	0		
R617	1-218-977-11	METAL CHIP	100K	5%	1/16W
R618	1-218-941-81	METAL CHIP	100	5%	1/16W
R619	1-218-941-81	METAL CHIP	100	5%	1/16W
R621	1-218-953-11	METAL CHIP	1K	5%	1/16W
R622	1-218-941-81	METAL CHIP	100	5%	1/16W
R623	1-218-953-11	METAL CHIP	1K	5%	1/16W
R624	1-218-941-81	METAL CHIP	100	5%	1/16W
R625	1-218-941-81	METAL CHIP	100	5%	1/16W
R626	1-218-977-11	METAL CHIP	100K	5%	1/16W
R627	1-218-941-81	METAL CHIP	100	5%	1/16W
R628	1-218-953-11	METAL CHIP	1K	5%	1/16W
R629	1-218-941-81	METAL CHIP	100	5%	1/16W
R630	1-218-941-81	METAL CHIP	100	5%	1/16W
R631	1-218-965-11	METAL CHIP	10K	5%	1/16W
R632	1-218-965-11	METAL CHIP	10K	5%	1/16W
R633	1-218-965-11	METAL CHIP	10K	5%	1/16W
R634	1-218-941-81	METAL CHIP	100	5%	1/16W
R635	1-218-977-11	METAL CHIP	100K	5%	1/16W
R637	1-218-977-11	METAL CHIP	100K	5%	1/16W
R638	1-218-941-81	METAL CHIP	100	5%	1/16W
R639	1-218-941-81	METAL CHIP	100	5%	1/16W
R640	1-218-977-11	METAL CHIP	100K	5%	1/16W
R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R642	1-218-941-81	METAL CHIP	100	5%	1/16W
R643	1-218-977-11	METAL CHIP	100K	5%	1/16W
R644	1-218-941-81	METAL CHIP	100	5%	1/16W
R646	1-218-965-11	METAL CHIP	10K	5%	1/16W
R647	1-218-977-11	METAL CHIP	100K	5%	1/16W
R648	1-218-977-11	METAL CHIP	100K	5%	1/16W
R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R650	1-218-941-81	METAL CHIP	100	5%	1/16W
R651	1-218-941-81	METAL CHIP	100	5%	1/16W
R652	1-218-941-81	METAL CHIP	100	5%	1/16W
R653	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R654	1-218-990-81	SHORT CHIP	0		
R655	1-216-864-11	SHORT CHIP	0		
R656	1-218-941-81	METAL CHIP	100	5%	1/16W
R657	1-218-977-11	METAL CHIP	100K	5%	1/16W
R658	1-218-941-81	METAL CHIP	100	5%	1/16W
R659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R660	1-218-941-81	METAL CHIP	100	5%	1/16W
R662	1-218-965-11	METAL CHIP	10K	5%	1/16W
R665	1-218-941-81	METAL CHIP	100	5%	1/16W
R666	1-216-296-11	SHORT CHIP	0		
R680	1-218-941-81	METAL CHIP	100	5%	1/16W
R681	1-218-977-11	METAL CHIP	100K	5%	1/16W
R682	1-218-977-11	METAL CHIP	100K	5%	1/16W
R683	1-218-990-81	SHORT CHIP	0		
R684	1-216-295-91	SHORT CHIP	0		
R701	1-216-864-11	SHORT CHIP	0		
R702	1-218-990-81	SHORT CHIP	0		
R703	1-216-864-11	SHORT CHIP	0		
R704	1-216-864-11	SHORT CHIP	0		
R705	1-218-990-81	SHORT CHIP	0		
R706	1-216-864-11	SHORT CHIP	0		
R707	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R708	1-216-864-11	SHORT CHIP	0		
R709	1-218-953-11	METAL CHIP	1K	5%	1/16W
R711	1-216-864-11	SHORT CHIP	0		
R712	1-242-967-11	METAL CHIP	1	5%	1/16W
R714	1-208-637-11	METAL CHIP	12	0.5%	1/16W
R715	1-216-864-11	SHORT CHIP	0		
R717	1-218-990-81	SHORT CHIP	0		
R718	1-218-941-81	METAL CHIP	100	5%	1/16W
R719	1-218-941-81	METAL CHIP	100	5%	1/16W
R720	1-218-990-81	SHORT CHIP	0		
R721	1-218-941-81	METAL CHIP	100	5%	1/16W
R722	1-218-941-81	METAL CHIP	100	5%	1/16W
R723	1-218-941-81	METAL CHIP	100	5%	1/16W
R724	1-218-947-11	METAL CHIP	330	5%	1/16W
R725	1-218-947-11	METAL CHIP	330	5%	1/16W
R726	1-218-969-11	METAL CHIP	22K	5%	1/16W
R727	1-218-990-81	SHORT CHIP	0		
R728	1-218-969-11	METAL CHIP	22K	5%	1/16W
R729	1-218-947-11	METAL CHIP	330	5%	1/16W
R731	1-216-864-11	SHORT CHIP	0		
R732	1-218-947-11	METAL CHIP	330	5%	1/16W
R733	1-218-990-81	SHORT CHIP	0		
R734	1-218-990-81	SHORT CHIP	0		
R735	1-218-947-11	METAL CHIP	330	5%	1/16W
R737	1-218-990-81	SHORT CHIP	0		
* R738	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
R739	1-218-989-11	METAL CHIP	1M	5%	1/16W
R740	1-218-941-81	METAL CHIP	100	5%	1/16W
R741	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R742	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R743	1-218-965-11	METAL CHIP	10K	5%	1/16W
R744	1-218-965-11	METAL CHIP	10K	5%	1/16W
R745	1-218-990-81	SHORT CHIP	0		
R747	1-218-977-11	METAL CHIP	100K	5%	1/16W
R748	1-218-983-11	METAL CHIP	330K	5%	1/16W
R749	1-218-977-11	METAL CHIP	100K	5%	1/16W
R750	1-218-967-11	METAL CHIP	15K	5%	1/16W
R751	1-216-841-11	METAL CHIP	47K	5%	1/10W
R752	1-218-941-81	METAL CHIP	100	5%	1/16W
R753	1-218-941-81	METAL CHIP	100	5%	1/16W
R754	1-218-941-81	METAL CHIP	100	5%	1/16W
R755	1-218-941-81	METAL CHIP	100	5%	1/16W
R756	1-218-941-81	METAL CHIP	100	5%	1/16W
R757	1-218-941-81	METAL CHIP	100	5%	1/16W
R758	1-218-977-11	METAL CHIP	100K	5%	1/16W
R760	1-218-977-11	METAL CHIP	100K	5%	1/16W
R761	1-218-977-11	METAL CHIP	100K	5%	1/16W
R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
R763	1-218-977-11	METAL CHIP	100K	5%	1/16W
R803	1-250-525-11	METAL CHIP	18K	1%	1/16W
* R805	1-250-543-11	METAL CHIP	100K	1%	1/16W
R806	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R807	1-250-529-11	METAL CHIP	27K	1%	1/16W
R808	1-250-640-11	METAL CHIP	10K	1%	1/10W
R809	1-250-640-11	METAL CHIP	10K	1%	1/10W
* R810	1-250-523-11	METAL CHIP	15K	1%	1/16W
R811	1-218-990-81	SHORT CHIP	0		
R812	1-218-941-81	METAL CHIP	100	5%	1/16W
R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
R814	1-218-966-11	METAL CHIP	12K	5%	1/16W
R815	1-257-321-11	METAL CHIP	0.039	1%	1/2W
R816	1-257-321-11	METAL CHIP	0.039	1%	1/2W
R817	1-216-864-11	SHORT CHIP	0		
R818	1-218-966-11	METAL CHIP	12K	5%	1/16W
R819	1-216-845-11	METAL CHIP	100K	5%	1/10W
R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
R822	1-250-602-11	METAL CHIP	270	1%	1/10W
R823	1-250-632-11	METAL CHIP	4.7K	1%	1/10W
R825	1-208-923-11	METAL CHIP	33K	0.5%	1/16W
R826	1-208-946-81	METAL CHIP	300K	0.5%	1/16W
R827	1-250-557-11	METAL CHIP	390K	1%	1/16W
R828	1-250-541-11	METAL CHIP	82K	1%	1/16W
R829	1-216-809-11	METAL CHIP	100	5%	1/10W
R830	1-250-533-11	METAL CHIP	39K	1%	1/16W
R831	1-218-977-11	METAL CHIP	100K	5%	1/16W
R832	1-250-495-11	METAL CHIP	1K	1%	1/16W
R833	1-250-495-11	METAL CHIP	1K	1%	1/16W
R834	1-216-809-11	METAL CHIP	100	5%	1/10W
* R835	1-250-540-11	METAL CHIP	75K	1%	1/16W
R836	1-216-809-11	METAL CHIP	100	5%	1/10W
R837	1-216-839-11	METAL CHIP	33K	5%	1/10W
* R838	1-250-545-11	METAL CHIP	120K	1%	1/16W
R839	1-250-563-11	METAL CHIP	680K	1%	1/16W
* R840	1-250-545-11	METAL CHIP	120K	1%	1/16W
R841	1-218-977-11	METAL CHIP	100K	5%	1/16W
R842	1-218-990-81	SHORT CHIP	0		
R845	1-218-990-81	SHORT CHIP	0		
R846	1-250-495-11	METAL CHIP	1K	1%	1/16W
R847	1-216-864-11	SHORT CHIP	0		
R848	1-216-801-11	METAL CHIP	22	5%	1/10W
R849	1-218-972-11	METAL CHIP	39K	5%	1/16W
R850	1-218-975-11	METAL CHIP	68K	5%	1/16W
R851	1-218-990-81	SHORT CHIP	0		
R852	1-250-519-11	METAL CHIP	10K	1%	1/16W
R853	1-208-897-81	METAL CHIP	2.7K	0.5%	1/16W
* R854	1-250-543-11	METAL CHIP	100K	1%	1/16W
R856	1-216-073-91	METAL CHIP	10K	5%	1/10W
R857	1-218-973-11	METAL CHIP	47K	5%	1/16W
R858	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R859	1-216-073-91	METAL CHIP	10K	5%	1/10W
R860	1-218-973-11	METAL CHIP	47K	5%	1/16W
R861	1-218-969-11	METAL CHIP	22K	5%	1/16W
R862	1-218-977-11	METAL CHIP	100K	5%	1/16W
R863	1-218-990-81	SHORT CHIP	0		
R865	1-208-948-11	METAL CHIP	360K	0.5%	1/16W
R868	1-216-821-11	METAL CHIP	1K	5%	1/10W
R869	1-216-821-11	METAL CHIP	1K	5%	1/10W
R870	1-250-495-11	METAL CHIP	1K	1%	1/16W
R871	1-248-473-11	METAL CHIP	0.068	1%	1/2W
R872	1-245-453-11	METAL CHIP	0.047	1%	1/2W
R878	1-216-296-11	SHORT CHIP	0		
R888	1-216-864-11	SHORT CHIP	0		
R890	1-216-864-11	SHORT CHIP	0		
R892	1-216-864-11	SHORT CHIP	0		
R894	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1001	1-216-296-11	SHORT CHIP	0		
R1002	1-216-296-11	SHORT CHIP	0		
R1003	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1004	1-218-941-81	METAL CHIP	100	5%	1/16W
R1005	1-218-941-81	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R1006	1-218-941-81	METAL CHIP	100	5%	1/16W
R1007	1-218-990-81	SHORT CHIP	0		
R1010	1-218-990-81	SHORT CHIP	0		
R1011	1-218-990-81	SHORT CHIP	0		
R1012	1-216-864-11	SHORT CHIP	0		
R1013	1-218-990-81	SHORT CHIP	0		
R1014	1-218-941-81	METAL CHIP	100	5%	1/16W
R1015	1-218-933-11	METAL CHIP	22	5%	1/16W
R1016	1-216-809-11	METAL CHIP	100	5%	1/10W
R1017	1-218-933-11	METAL CHIP	22	5%	1/16W
R1018	1-216-809-11	METAL CHIP	100	5%	1/10W
R1019	1-218-941-81	METAL CHIP	100	5%	1/16W
R1020	1-216-809-11	METAL CHIP	100	5%	1/10W
R1021	1-216-809-11	METAL CHIP	100	5%	1/10W
R1023	1-218-941-81	METAL CHIP	100	5%	1/16W
R1024	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1025	1-218-941-81	METAL CHIP	100	5%	1/16W
R1028	1-218-990-81	SHORT CHIP	0		
R1029	1-218-990-81	SHORT CHIP	0		
R1030	1-218-941-81	METAL CHIP	100	5%	1/16W
R1031	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R1032	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1033	1-218-967-11	METAL CHIP	15K	5%	1/16W
R1035	1-218-990-81	SHORT CHIP	0		
R1036	1-218-951-11	METAL CHIP	680	5%	1/16W
R1037	1-218-937-11	METAL CHIP	47	5%	1/16W
R1040	1-250-525-11	METAL CHIP	18K	1%	1/16W
R1052	1-216-864-11	SHORT CHIP	0		
R1055	1-216-864-11	SHORT CHIP	0		
R1056	1-216-864-11	SHORT CHIP	0		
R1090	1-218-990-81	SHORT CHIP	0		
R1117	1-218-990-81	SHORT CHIP	0		
R1145	1-216-296-11	SHORT CHIP	0		
R1173	1-216-296-11	SHORT CHIP	0		
R1300	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1301	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R1302	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1303	1-216-809-11	METAL CHIP	100	5%	1/10W
R1304	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R1306	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1307	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R1309	1-250-541-11	METAL CHIP	82K	1%	1/16W
R1310	1-250-541-11	METAL CHIP	82K	1%	1/16W
R1311	1-250-664-11	METAL CHIP	100K	1%	1/10W
R1312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1313	1-216-864-11	SHORT CHIP	0		
R1314	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1317	1-216-864-11	SHORT CHIP	0		
R1318	1-246-184-81	METAL CHIP	2.43K	0.5%	1/16W
R1320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1333	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1334	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1350	1-216-864-11	SHORT CHIP	0		
R1353	1-218-989-11	METAL CHIP	1M	5%	1/16W
R1354	1-216-296-11	SHORT CHIP	0		
R1355	1-216-864-11	SHORT CHIP	0		
R1358	1-216-864-11	SHORT CHIP	0		
R1359	1-216-864-11	SHORT CHIP	0		
* R1361	1-250-513-11	METAL CHIP	5.6K	1%	1/16W

Ref. No.	Part No.	Description	Remark
		< TUNER UNIT >	
TU01	A-1946-531-A	TUX-DSP03 (TUNER UNIT)	
		< VIBRATOR >	
X501	1-814-485-11	QUARTZ CRYSTAL UNIT (48 MHz)	
X502	1-814-767-11	QUARTZ CRYSTAL UNITS (13.333 MHz)	
X503	1-814-777-11	QUARTZ CRYSTAL UNITS (32.768 kHz)	
X701	1-814-778-11	QUARTZ CRYSTAL UNITS (16.9344 MHz)	
X1300	1-814-367-11	QUARTZ CRYSTAL UNITS (30 MHz)	

MEX-M70BT

SONY®

US Model
Canadian Model

SERVICE MANUAL

Ver. 1.3 2014.12

SUPPLEMENT-2

File this supplement with the service manual.

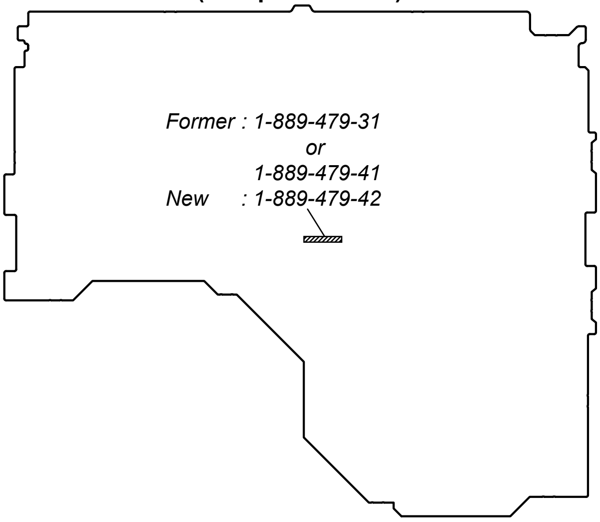
Subject: Change of MAIN board (Suffix-42)

The MAIN board has been changed in the midway of production.
Discrimination, printed wiring board, schematic diagram and electrical parts list of the MAIN board of New type are described in this service manual SUPPLEMENT-2.
Refer to original service manual and service manual supplement-1 for information of Former type.

1. NEW/FORMER DISCRIMINATION

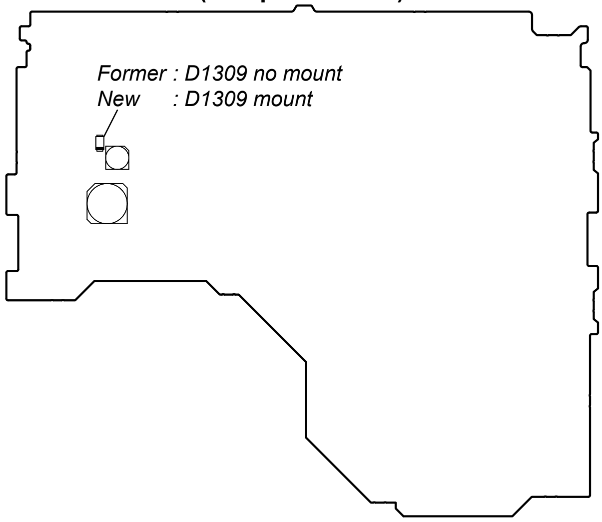
- Distinguish by the part number of the silk print.

– MAIN Board (Component Side) –



- Distinguish by the mount state of D1309 on the MAIN board.

– MAIN Board (Component Side) –



9-893-929-82

2. DIAGRAMS

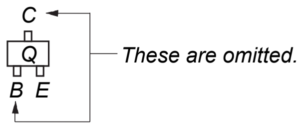
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

Note:
- o———: Parts extracted from the component side.
- ———: Parts extracted from the conductor side.
- △ : Internal component.
- ▬ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8 on original service manual.

For Schematic Diagrams.

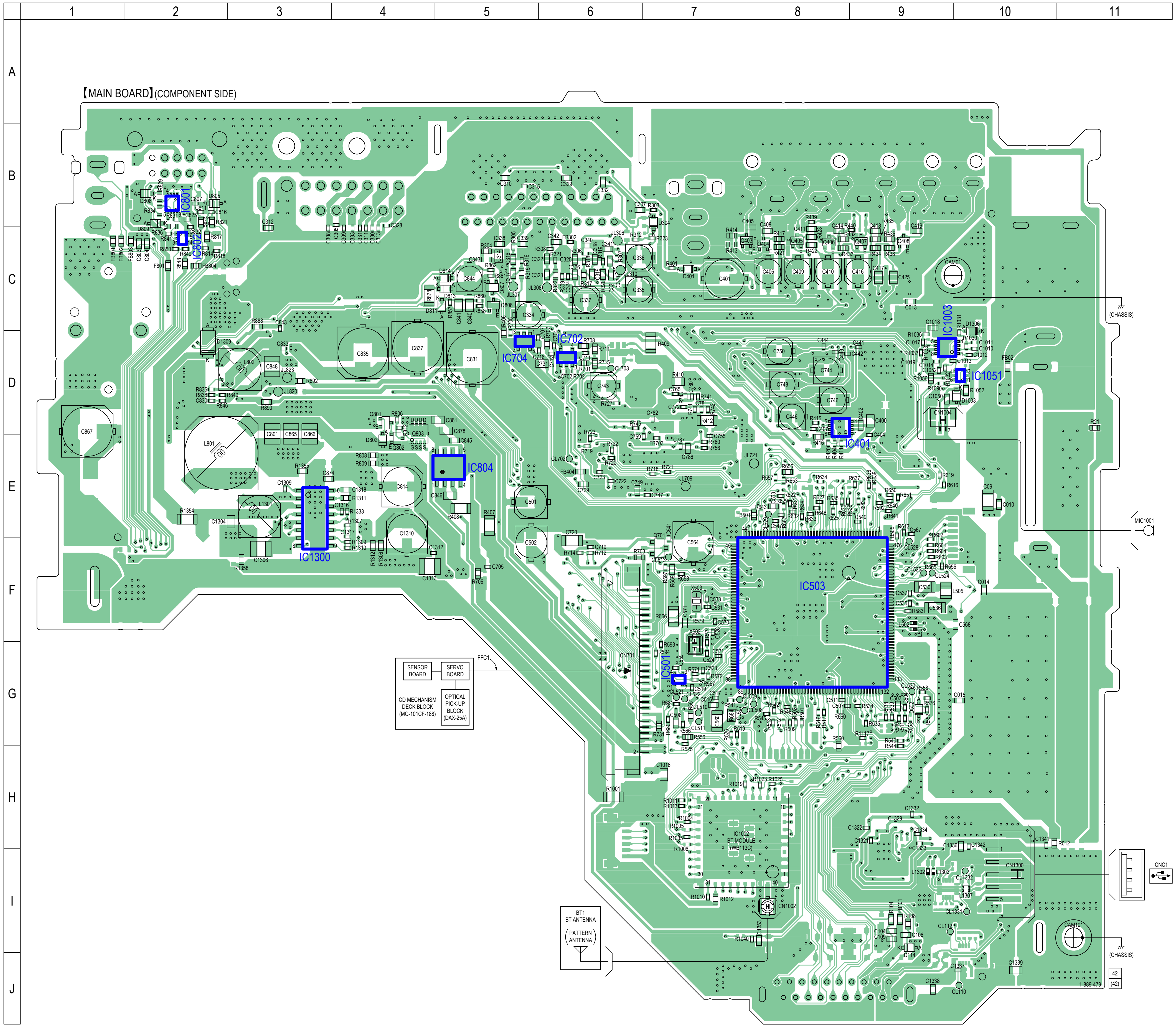
Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭ : Panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM)
  (   ): CD PLAY
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : AUDIO
  : TUNER
  : SIRIUS/XM
  : CD PLAY
  : USB
  : AUX
  : Bluetooth
  : MIC

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8 on original service manual.

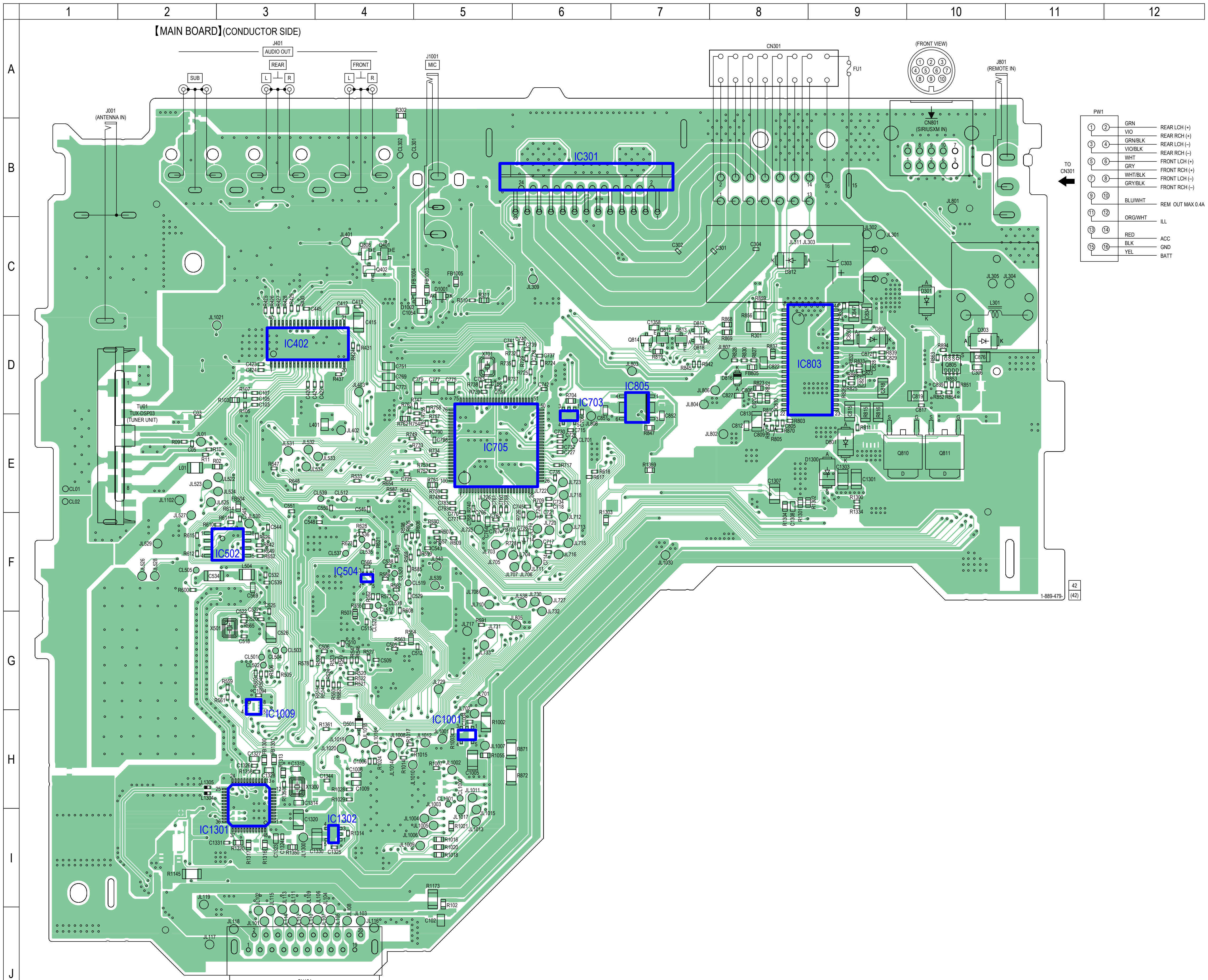
2-1. PRINTED WIRING BOARD - MAIN Board (Component Side) - • : Uses unleaded solder.



Note 1: IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

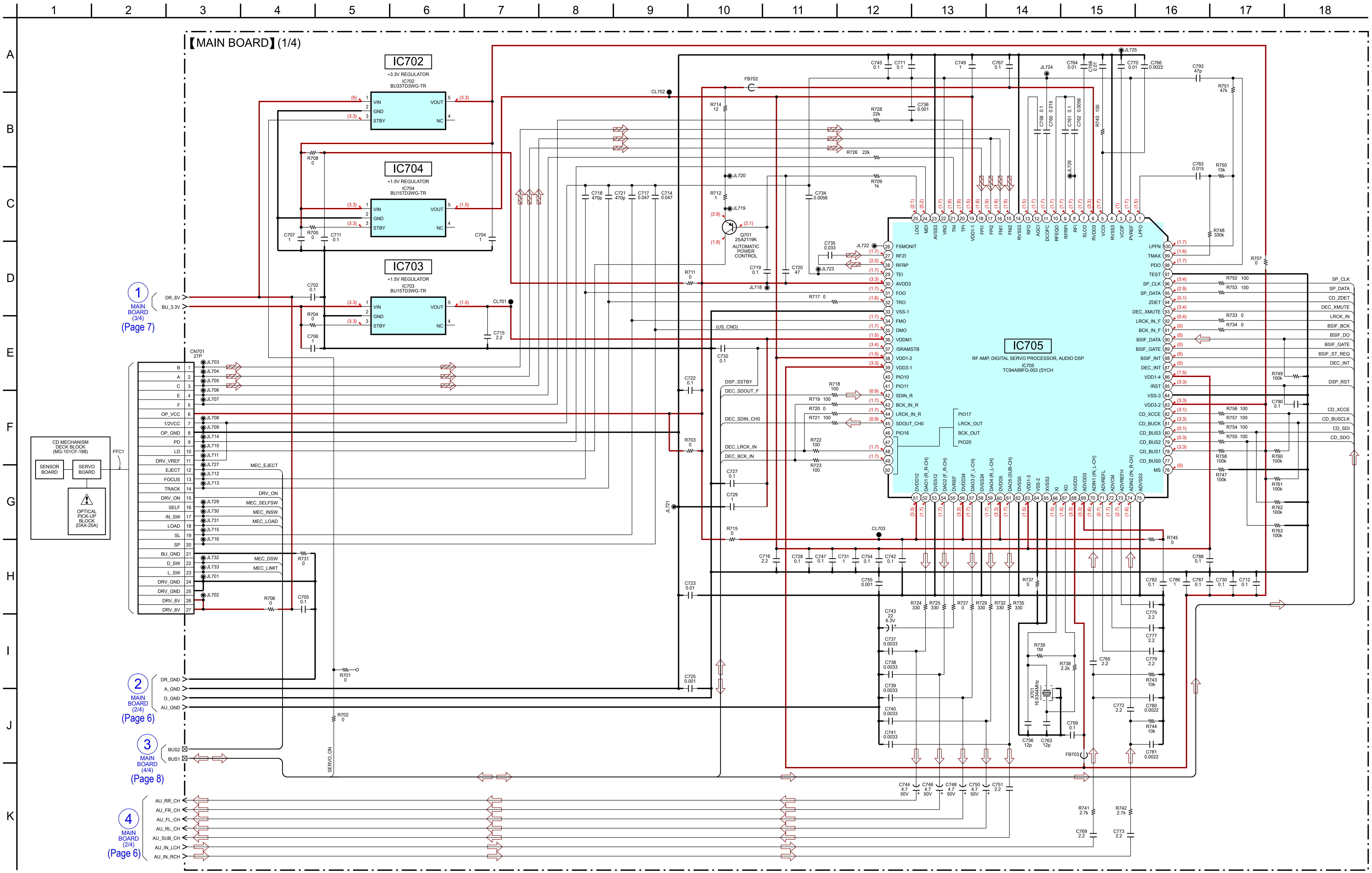
2-2. PRINTED WIRING BOARD - MAIN Board (Conductor Side) - • : Uses unleaded solder.



Note 1: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to “DESTINATION SETTING METHOD” on page 4 on original service manual.

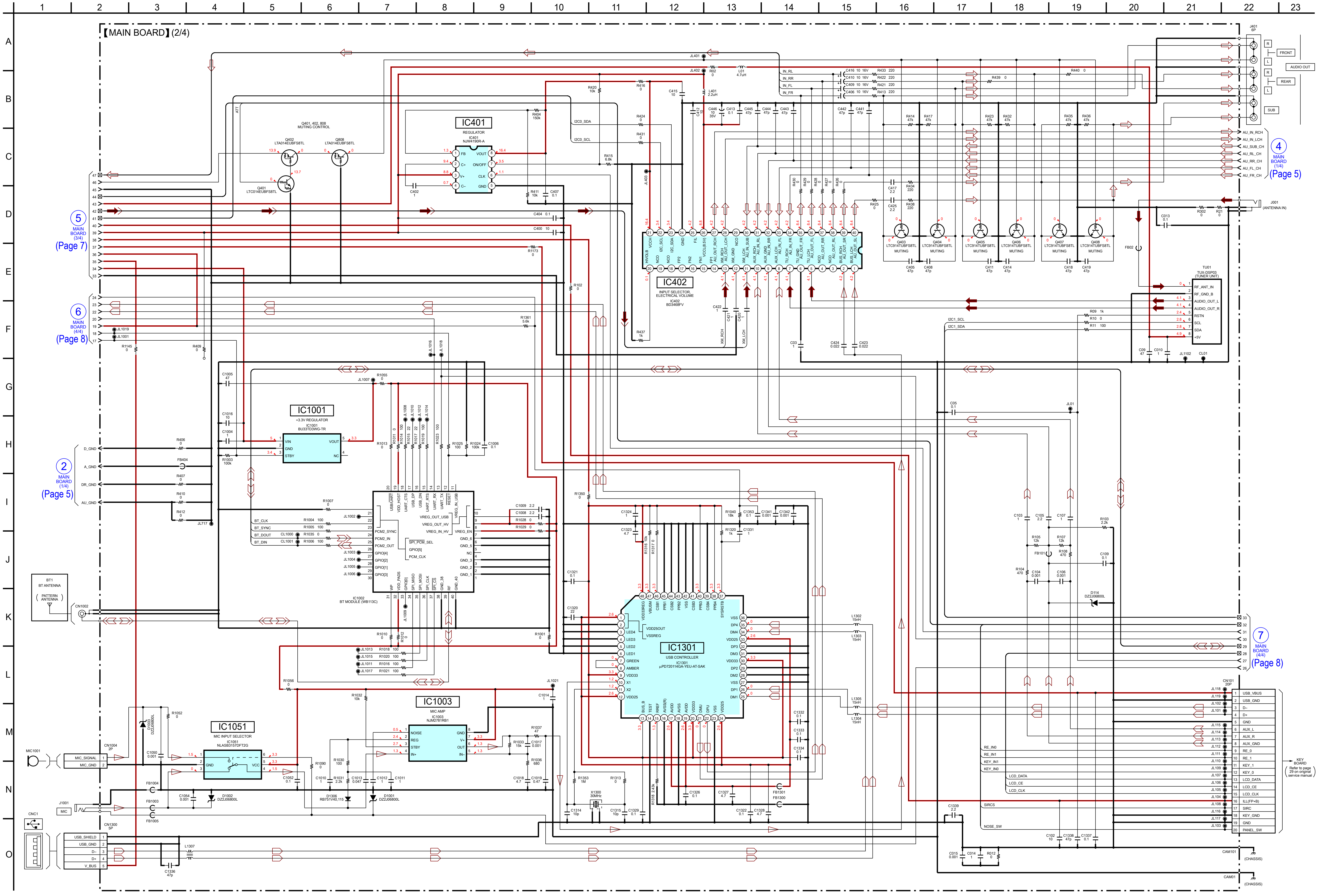
Note 2: IC1009 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

2-3. SCHEMATIC DIAGRAM - MAIN Board (1/4) -



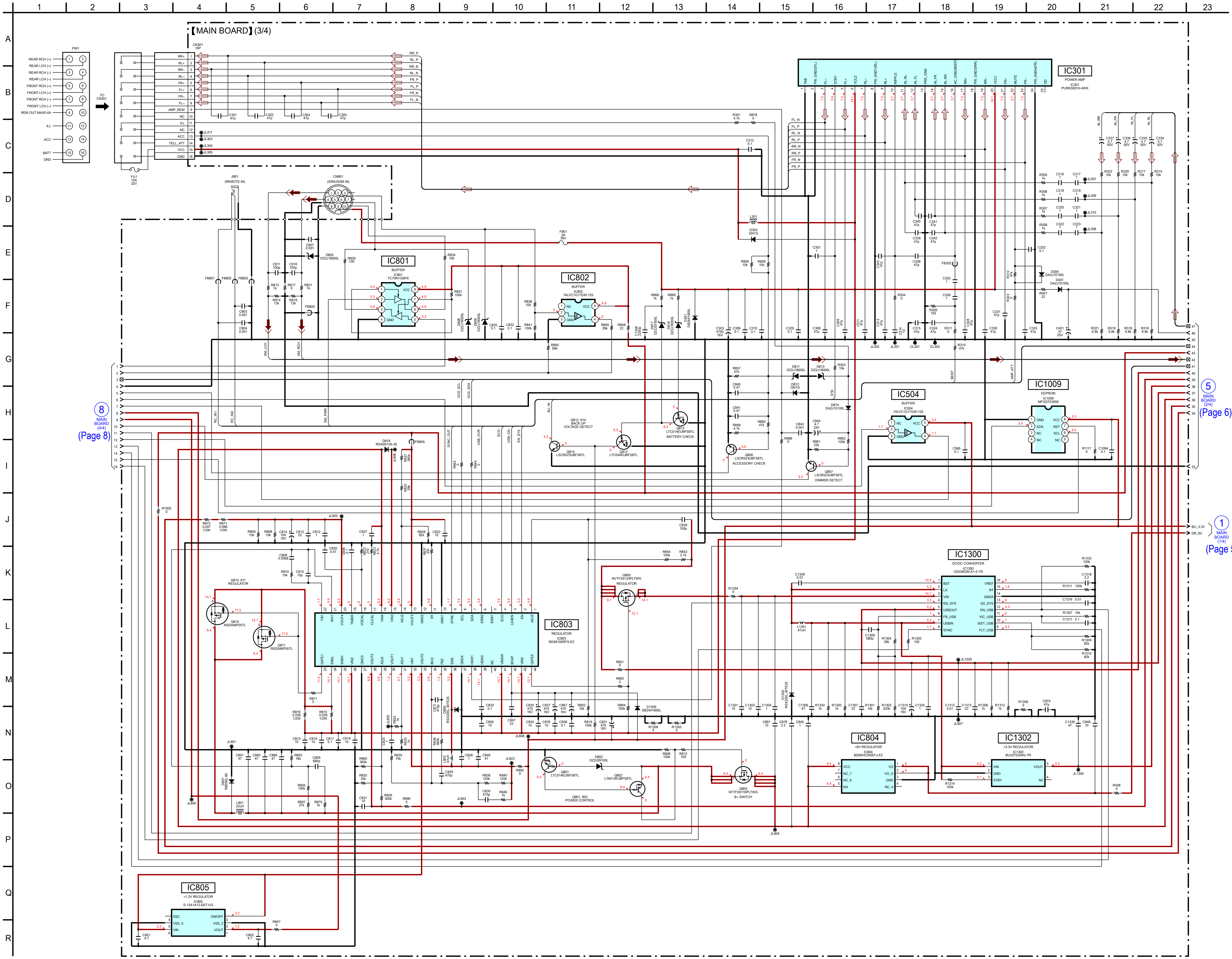
Note: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

2-4. SCHEMATIC DIAGRAM - MAIN Board (2/4) -



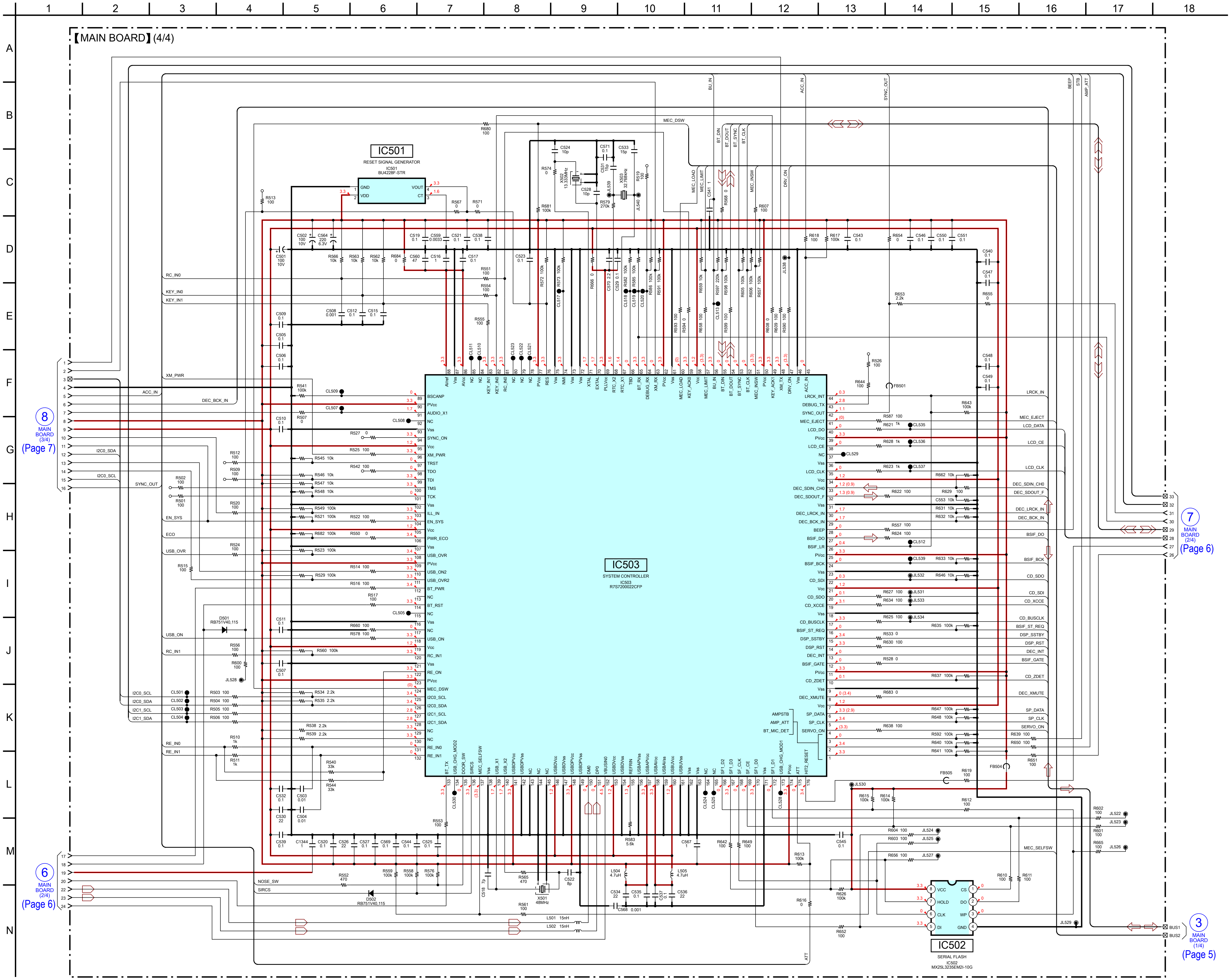
Note: IC1002 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

2-5. SCHEMATIC DIAGRAM - MAIN Board (3/4) -



Note: IC804 and IC1009 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

2-6. SCHEMATIC DIAGRAM - MAIN Board (4/4) -



Note: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to “DESTINATION SETTING METHOD” on page 4 on original service manual.

MAIN

3. ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . , uPA. . , μPA. . ,
  uPB. . : μPB. . , uPC. . , μPC. . ,
  uPD. . : μPD. .

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark
	A-2033-096-B	MAIN BOARD, COMPLETE (See Note)			
		********************			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-794-01	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR/RESISTOR >			
* C03	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C05	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C09	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
C010	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C013	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
C014	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C015	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C102	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
* C103	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C104	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
C105	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
C106	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
* C107	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C109	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C301	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C302	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C303	1-112-839-11	ELECT	4700uF	20%	16V
C304	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C305	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C306	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
C307	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C308	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C309	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C310	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C311	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C312	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C313	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C314	1-118-930-11	CERAMIC CHIP	10uF	10%	10V
C315	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C316	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C317	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C318	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C319	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C320	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C321	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C322	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C323	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C324	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C325	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C326	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C328	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C329	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C330	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C331	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C332	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
C333	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C334	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
C335	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
C336	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
C337	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
C338	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C339	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C340	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C341	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C342	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C343	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C400	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
C401	1-128-992-21	ELECT CHIP	47uF	20%	25V
C402	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
C404	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C405	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C406	1-124-779-00	ELECT CHIP	10uF	20%	16V
* C407	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C408	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C409	1-124-779-00	ELECT CHIP	10uF	20%	16V
C410	1-124-779-00	ELECT CHIP	10uF	20%	16V
C411	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C412	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C413	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C414	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C415	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
C416	1-124-779-00	ELECT CHIP	10uF	20%	16V
C417	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
C418	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C419	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
* C420	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
* C421	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
* C422	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C423	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V
C424	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V
C425	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
C441	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C442	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C443	1-164-866-11	CERAMIC CHIP	47PF	5%	50V

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8 on original service manual.

MAIN

	Ref. No.	Part No.	Description			Remark
	C444	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C445	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C446	1-114-599-21	ELECT CHIP	10uF	20%	35V
	C501	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C502	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C503	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
	C504	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C505	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C506	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C507	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C508	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C509	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C510	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C511	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C512	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C515	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C517	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C518	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V
	C519	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C520	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C521	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C522	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
	C523	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C524	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C525	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C526	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C527	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C528	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C529	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C530	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C531	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
	C532	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C533	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
	C534	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C535	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C536	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
	C537	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C538	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C539	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C540	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C541	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C543	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C544	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C545	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C546	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C547	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C548	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C549	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C550	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C551	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C553	1-216-833-11	METAL CHIP	10K	5%	1/10W
	C559	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
	C560	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C564	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
	C566	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C567	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C568	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
	C569	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C570	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V

	Ref. No.	Part No.	Description			Remark
	C571	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C702	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C704	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C705	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
*	C706	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C707	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C711	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C712	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C714	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
	C715	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C716	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C717	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
*	C718	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C719	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C720	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
*	C721	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C722	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C723	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C725	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C727	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C728	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C729	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C730	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C731	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
	C732	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C734	1-118-394-11	CERAMIC CHIP	0.0056uF	10%	50V
	C735	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
	C736	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
	C737	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C738	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C739	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C740	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C741	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
	C742	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C743	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
	C744	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C745	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C746	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C747	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C748	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C749	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C750	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
	C751	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C754	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C755	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C756	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
	C758	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C759	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C760	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
	C761	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C762	1-100-579-81	CERAMIC CHIP	0.0056uF	10%	25V
	C763	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
	C764	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
	C765	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C766	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C767	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C768	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C769	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C770	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C771	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V

	Ref. No.	Part No.	Description			Remark
	C772	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
	C773	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C775	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C777	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C779	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C780	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C781	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C782	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C783	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
	C786	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C787	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C788	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C790	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C793	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C801	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C803	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C804	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C805	1-118-405-11	CERAMIC CHIP	680PF	10%	50V
	C806	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C807	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C809	1-118-393-11	CERAMIC CHIP	0.0068uF	10%	50V
	C810	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C811	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C812	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C813	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C814	1-135-366-11	ELECT CHIP	100uF	20%	16V
	C815	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C816	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C817	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C818	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C819	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C820	1-116-740-11	CERAMIC CHIP	0.47uF	10%	16V
	C821	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C822	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
*	C823	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C825	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C827	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C828	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
*	C829	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
*	C830	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C831	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C832	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C833	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C834	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C835	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C837	1-100-769-21	ELECT CHIP	470uF	20%	16V
	C838	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C839	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
	C840	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
	C841	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
	C843	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C844	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
	C845	1-114-813-11	CERAMIC CHIP	1uF	10%	16V
	C846	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C847	1-118-955-11	CERAMIC CHIP	22uF	20%	16V
	C848	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C850	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C851	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C852	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C861	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C865	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C866	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C867	1-100-769-21	ELECT CHIP	470uF	20%	16V
*	C872	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
	C874	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C876	1-118-359-11	CERAMIC CHIP	10uF	10%	16V
	C878	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V
	C1004	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C1005	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C1006	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1008	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
	C1009	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
*	C1010	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C1011	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C1012	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1013	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
*	C1014	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1016	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C1017	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C1018	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
	C1019	1-116-741-11	CERAMIC CHIP	0.47uF	20%	10V
	C1050	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C1052	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1054	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
	C1094	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1301	1-118-932-11	CERAMIC CHIP	10uF	10%	16V
	C1303	1-118-932-11	CERAMIC CHIP	10uF	10%	16V
	C1304	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
	C1306	1-118-929-11	CERAMIC CHIP	47uF	10%	16V
	C1307	1-118-931-11	CERAMIC CHIP	22uF	10%	10V
	C1308	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
	C1309	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C1310	1-135-366-11	ELECT CHIP	100uF	20%	16V
	C1312	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
	C1313	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
	C1314	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C1315	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C1316	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C1317	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1318	1-118-278-91	CERAMIC CHIP	2.2uF	10%	10V
	C1320	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
	C1321	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1322	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1323	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1324	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
*	C1325	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C1326	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1327	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1328	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
	C1329	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1330	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C1331	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C1332	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1333	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1334	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1336	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C1337	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C1338	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
	C1339	1-118-045-11	CERAMIC CHIP	2.2uF	10%	25V
	C1341	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description	Remark
C1342	1-118-403-11	CERAMIC CHIP 0.001uF 10%	50V
* C1344	1-116-738-11	CERAMIC CHIP 1uF 10%	6.3V
C1353	1-118-361-11	CERAMIC CHIP 0.1uF 10%	50V
C1358	1-162-966-91	CERAMIC CHIP 0.0022uF 10%	50V
		< CONNECTOR >	
CN101	1-842-266-22	SOCKET, CONNECTOR 20P	
CN301	1-843-330-11	PIN, CONNECTOR 16P	
CN701	1-843-775-11	CONNECTOR, FFC/FPC (ZIF) 27P	
CN801	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN)	
CN1002	1-821-559-11	CONNECTOR, COAXIAL (SMT TYPE)	
CN1004	1-784-650-21	CONNECTOR 2P	
CN1300	1-779-993-11	PIN, CONNECTOR (PWB) 5P	
		< DIODE >	
D114	6-502-969-01	DIODE DZ2J06800L	
D301	6-503-548-01	DIODE DB2441600L	
D303	6-503-238-01	DIODE GN1G	
D304	6-502-961-01	DIODE DA2J10100L	
D401	6-502-961-01	DIODE DA2J10100L	
D501	6-503-759-01	DIODE RB751V40, 115	
D502	6-503-759-01	DIODE RB751V40, 115	
D801	6-504-041-01	DIODE RB050L-60	
D802	6-502-972-01	DIODE DZ2J09100L	
D805	6-503-031-01	DIODE DZ2J18000L	
* D806	6-503-973-01	DIODE RSX205L-30TE25	
D808	6-503-031-01	DIODE DZ2J18000L	
D809	6-503-031-01	DIODE DZ2J18000L	
D811	6-503-031-01	DIODE DZ2J18000L	
D812	6-503-238-01	DIODE GN1G	
D813	6-503-031-01	DIODE DZ2J18000L	
D814	6-502-961-01	DIODE DA2J10100L	
D816	6-504-047-01	DIODE RSX051VA-30	
D817	6-503-016-01	DIODE DZ2J07500L	
D818	6-503-031-01	DIODE DZ2J18000L	
D1001	6-502-969-01	DIODE DZ2J06800L	
D1002	6-502-969-01	DIODE DZ2J06800L	
D1003	6-502-969-01	DIODE DZ2J06800L	
* D1300	6-503-973-01	DIODE RSX205L-30TE25	
D1306	6-503-759-01	DIODE RB751V40, 115	
D1309	6-503-548-01	DIODE DB2441600L	
		< FUSE >	
F801	1-576-415-11	FUSE (2 A/32 V)	
		< FERRITE BEAD >	
FB02	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB101	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB302	1-481-746-11	SDM EMI FERRITE	
FB404	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB501	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB504	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB505	1-400-823-11	EMI FERRITE (SMD) (1005)	
FB702	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB703	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB804	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB805	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1003	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1004	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1005	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1300	1-469-094-21	FERRITE, EMI (SMD) (1608)	
FB1301	1-469-094-21	FERRITE, EMI (SMD) (1608)	
		< IC/BT MODULE >	
IC301	6-720-774-01	IC PURE5001H-4WX	
IC401	6-721-140-01	IC NJW4190R-A (TE2)	
IC402	6-721-168-01	IC BD3468FV-E2	
IC501	6-719-855-01	IC BU4228F-STR	
IC502	6-721-462-01	IC MX25L3235EM2I-10G-A01 (for SERVICE) (See Note 1)	
IC503	6-721-336-01	IC R7S7200022CFP	
IC504	6-710-376-01	IC 74LVC1G17GW-125	
IC702	6-717-694-01	IC BU33TD3WG-TR	
IC703	6-716-355-01	IC BU15TD3WG-TR	
IC704	6-716-355-01	IC BU15TD3WG-TR	
IC705	6-715-712-11	IC TC94A99FG-003 (SYCH	
IC801	6-709-182-01	IC TC7WH126FK	
IC802	6-710-376-01	IC 74LVC1G17GW-125	
IC803	6-721-184-01	IC BD49100RFS-E2	
IC804	(Not supplied)	IC BD60HC0WEFJ-E2 (See Note 2)	
IC805	6-719-012-01	IC S-13A1A12-E6T1U3	
IC1001	6-717-694-01	IC BU33TD3WG-TR	
IC1002	(Not supplied)	BT MODULE (WB113C) (See Note 2)	
IC1003	6-703-863-01	IC NJM2781RB1	
IC1009	(Not supplied)	IC MFI337S3959 (See Note 2)	
IC1051	6-716-858-01	IC NLASB3157DFT2G	
IC1300	6-718-913-01	IC OZ539IGN-A1-0-TR	
IC1301	6-718-416-01	IC uPD720114GA-YEU-AT-SAK	
IC1302	6-717-694-01	IC BU33TD3WG-TR	
		< JACK >	
J001	1-843-791-11	JACK (ANT) (ANTENNA IN)	
J401	1-822-714-21	JACK, PIN 6P (FRONT/REAR/SUB AUDIO OUT)	
J801	1-566-822-81	JACK (REMOTE IN)	
J1001	1-566-822-91	JACK (MIC)	
		< COIL >	
L01	1-400-073-21	INDUCTOR 4.7uH	
L301	1-456-617-11	COIL, CHOKE	
L401	1-469-844-11	INDUCTOR 2.2uH	
L501	1-414-842-21	INDUCTOR 15nH	
L502	1-414-842-21	INDUCTOR 15nH	
L504	1-400-073-21	INDUCTOR 4.7uH	
L505	1-400-073-21	INDUCTOR 4.7uH	
L801	1-460-704-11	COIL, CHOKE 22uH	
L802	1-481-904-11	INDUCTOR 47uH	
L1301	1-481-904-11	INDUCTOR 47uH	
L1302	1-414-842-21	INDUCTOR 15nH	
L1303	1-414-842-21	INDUCTOR 15nH	
L1304	1-414-842-21	INDUCTOR 15nH	
L1305	1-414-842-21	INDUCTOR 15nH	
L1307	1-457-223-11	COMMON MODE CHOKE COIL	
		< TRANSISTOR >	
Q401	6-552-936-01	TRANSISTOR LTC014EUBFS8TL	
Q402	6-552-922-01	TRANSISTOR LTA014EUBFS8TL	

Note 1: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4 on original service manual.

Note 2: IC804, IC1002 and IC1009 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Ref. No.	Part No.	Description				Remark
Q403	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q404	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q405	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q406	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q407	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q408	6-552-856-01	TRANSISTOR	LTC914TUBFS8TL			
Q701	6-551-120-01	TRANSISTOR	2SA2119K			
Q801	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q802	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q803	6-553-498-01	FET	NTTFS5116PLTWG			
Q805	6-553-497-01	FET	NVTFS5124PLTWG			
Q806	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
Q807	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
Q808	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q810	6-553-496-01	FET	RSD046P05TL			
Q811	6-553-496-01	FET	RSD046P05TL			
Q812	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL			
Q813	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q814	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
		< RESISTOR >				
R02	1-216-864-11	SHORT CHIP	0			
R09	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R10	1-218-990-81	SHORT CHIP	0			
R11	1-218-941-81	METAL CHIP	100	5%	1/16W	
R012	1-216-864-11	SHORT CHIP	0			
R21	1-216-864-11	SHORT CHIP	0			
R102	1-216-864-11	SHORT CHIP	0			
R103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R104	1-216-817-11	METAL CHIP	470	5%	1/10W	
R105	1-218-966-11	METAL CHIP	12K	5%	1/16W	
R107	1-218-966-11	METAL CHIP	12K	5%	1/16W	
R108	1-216-817-11	METAL CHIP	470	5%	1/10W	
R301	1-216-214-00	METAL CHIP	4.7K	5%	1/8W	
R302	1-216-864-11	SHORT CHIP	0			
R303	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R304	1-216-864-11	SHORT CHIP	0			
R305	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R306	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R307	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R308	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R309	1-218-943-11	METAL CHIP	150	5%	1/16W	
R310	1-218-973-11	METAL CHIP	47K	5%	1/16W	
R311	1-216-864-11	SHORT CHIP	0			
R312	1-218-973-11	METAL CHIP	47K	5%	1/16W	
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R316	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R318	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R319	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R321	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R323	1-218-990-81	SHORT CHIP	0			
R401	1-218-933-11	METAL CHIP	22	5%	1/16W	
R404	1-208-939-11	METAL CHIP	150K	0.5%	1/16W	
R406	1-216-864-11	SHORT CHIP	0			
R407	1-216-296-11	SHORT CHIP	0			
R408	1-216-296-11	SHORT CHIP	0			
R409	1-216-296-11	SHORT CHIP	0			

Ref. No.	Part No.	Description				Remark
R410	1-216-295-91	SHORT CHIP	0			
R411	1-250-519-11	METAL CHIP	10K	1%	1/16W	
R412	1-216-296-11	SHORT CHIP	0			
R413	1-250-600-11	METAL CHIP	220	1%	1/10W	
R414	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R415	1-250-515-11	METAL CHIP	6.8K	1%	1/16W	
R416	1-216-864-11	SHORT CHIP	0			
R417	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R420	1-250-519-11	METAL CHIP	10K	1%	1/16W	
R421	1-250-600-11	METAL CHIP	220	1%	1/10W	
R422	1-250-600-11	METAL CHIP	220	1%	1/10W	
R423	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R424	1-218-990-81	SHORT CHIP	0			
R425	1-218-990-81	SHORT CHIP	0			
R426	1-218-990-81	SHORT CHIP	0			
R427	1-218-990-81	SHORT CHIP	0			
R428	1-218-990-81	SHORT CHIP	0			
R429	1-218-990-81	SHORT CHIP	0			
R430	1-218-990-81	SHORT CHIP	0			
R431	1-218-990-81	SHORT CHIP	0			
R432	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R433	1-250-600-11	METAL CHIP	220	1%	1/10W	
R434	1-250-600-11	METAL CHIP	220	1%	1/10W	
R435	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R436	1-250-656-11	METAL CHIP	47K	1%	1/10W	
R437	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R438	1-250-600-11	METAL CHIP	220	1%	1/10W	
R439	1-218-990-81	SHORT CHIP	0			
R440	1-218-990-81	SHORT CHIP	0			
R501	1-218-941-81	METAL CHIP	100	5%	1/16W	
R502	1-218-941-81	METAL CHIP	100	5%	1/16W	
R503	1-218-941-81	METAL CHIP	100	5%	1/16W	
R504	1-218-941-81	METAL CHIP	100	5%	1/16W	
R505	1-218-941-81	METAL CHIP	100	5%	1/16W	
R506	1-218-941-81	METAL CHIP	100	5%	1/16W	
R507	1-216-864-11	SHORT CHIP	0			
R509	1-218-941-81	METAL CHIP	100	5%	1/16W	
R510	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R511	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R512	1-218-941-81	METAL CHIP	100	5%	1/16W	
R513	1-218-941-81	METAL CHIP	100	5%	1/16W	
R514	1-218-941-81	METAL CHIP	100	5%	1/16W	
R515	1-218-941-81	METAL CHIP	100	5%	1/16W	
R516	1-218-941-81	METAL CHIP	100	5%	1/16W	
R517	1-218-941-81	METAL CHIP	100	5%	1/16W	
R519	1-218-941-81	METAL CHIP	100	5%	1/16W	
R520	1-218-941-81	METAL CHIP	100	5%	1/16W	
R521	1-218-977-11	METAL CHIP	100K	5%	1/16W	
R522	1-218-941-81	METAL CHIP	100	5%	1/16W	
R523	1-218-977-11	METAL CHIP	100K	5%	1/16W	
R524	1-218-941-81	METAL CHIP	100	5%	1/16W	
R525	1-218-941-81	METAL CHIP	100	5%	1/16W	
R526	1-218-941-81	METAL CHIP	100	5%	1/16W	
R527	1-218-990-81	SHORT CHIP	0			
R528	1-218-990-81	SHORT CHIP	0			
R529	1-218-977-11	METAL CHIP	100K	5%	1/16W	
R533	1-218-990-81	SHORT CHIP	0			
R534	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	
R535	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	
R538	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	

MAIN

Ref. No.	Part No.	Description			Remark
R539	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R540	1-218-971-81	METAL CHIP	33K	5%	1/16W
R541	1-218-977-11	METAL CHIP	100K	5%	1/16W
R542	1-218-941-81	METAL CHIP	100	5%	1/16W
R544	1-218-971-81	METAL CHIP	33K	5%	1/16W
R545	1-218-965-11	METAL CHIP	10K	5%	1/16W
R546	1-218-965-11	METAL CHIP	10K	5%	1/16W
R547	1-218-965-11	METAL CHIP	10K	5%	1/16W
R548	1-218-965-11	METAL CHIP	10K	5%	1/16W
R549	1-218-977-11	METAL CHIP	100K	5%	1/16W
R550	1-218-990-81	SHORT CHIP	0		
R551	1-216-809-11	METAL CHIP	100	5%	1/10W
R552	1-218-949-11	METAL CHIP	470	5%	1/16W
R553	1-218-941-81	METAL CHIP	100	5%	1/16W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-218-941-81	METAL CHIP	100	5%	1/16W
R558	1-218-977-11	METAL CHIP	100K	5%	1/16W
R559	1-218-977-11	METAL CHIP	100K	5%	1/16W
R560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R561	1-218-941-81	METAL CHIP	100	5%	1/16W
R562	1-250-519-11	METAL CHIP	10K	1%	1/16W
R563	1-250-519-11	METAL CHIP	10K	1%	1/16W
R565	1-218-949-11	METAL CHIP	470	5%	1/16W
R566	1-250-519-11	METAL CHIP	10K	1%	1/16W
R567	1-218-990-81	SHORT CHIP	0		
R568	1-218-990-81	SHORT CHIP	0		
R571	1-218-990-81	SHORT CHIP	0		
R572	1-218-977-11	METAL CHIP	100K	5%	1/16W
R573	1-218-977-11	METAL CHIP	100K	5%	1/16W
R574	1-218-990-81	SHORT CHIP	0		
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W
R578	1-218-941-81	METAL CHIP	100	5%	1/16W
R579	1-250-553-11	METAL CHIP	270K	1%	1/16W
R582	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R583	1-250-513-11	METAL CHIP	5.6K	1%	1/16W
R585	1-218-977-11	METAL CHIP	100K	5%	1/16W
R586	1-218-977-11	METAL CHIP	100K	5%	1/16W
R587	1-218-941-81	METAL CHIP	100	5%	1/16W
R590	1-218-941-81	METAL CHIP	100	5%	1/16W
R591	1-218-977-11	METAL CHIP	100K	5%	1/16W
R592	1-218-977-11	METAL CHIP	100K	5%	1/16W
R593	1-218-941-81	METAL CHIP	100	5%	1/16W
R594	1-218-990-81	SHORT CHIP	0		
R597	1-218-981-81	METAL CHIP	220K	5%	1/16W
R598	1-218-977-11	METAL CHIP	100K	5%	1/16W
R599	1-218-941-81	METAL CHIP	100	5%	1/16W
R600	1-218-941-81	METAL CHIP	100	5%	1/16W
R601	1-218-941-81	METAL CHIP	100	5%	1/16W
R602	1-218-941-81	METAL CHIP	100	5%	1/16W
R603	1-218-941-81	METAL CHIP	100	5%	1/16W
R604	1-218-941-81	METAL CHIP	100	5%	1/16W
R605	1-218-977-11	METAL CHIP	100K	5%	1/16W
R606	1-218-977-11	METAL CHIP	100K	5%	1/16W
R607	1-218-941-81	METAL CHIP	100	5%	1/16W
R608	1-218-990-81	SHORT CHIP	0		
R609	1-218-941-81	METAL CHIP	100	5%	1/16W
R610	1-218-941-81	METAL CHIP	100	5%	1/16W
R611	1-218-941-81	METAL CHIP	100	5%	1/16W
R612	1-218-941-81	METAL CHIP	100	5%	1/16W
R613	1-218-977-11	METAL CHIP	100K	5%	1/16W
R614	1-218-977-11	METAL CHIP	100K	5%	1/16W
R615	1-218-977-11	METAL CHIP	100K	5%	1/16W
R616	1-218-990-81	SHORT CHIP	0		
R617	1-218-977-11	METAL CHIP	100K	5%	1/16W
R618	1-218-941-81	METAL CHIP	100	5%	1/16W
R619	1-218-941-81	METAL CHIP	100	5%	1/16W
R621	1-218-953-11	METAL CHIP	1K	5%	1/16W
R622	1-218-941-81	METAL CHIP	100	5%	1/16W
R623	1-218-953-11	METAL CHIP	1K	5%	1/16W
R624	1-218-941-81	METAL CHIP	100	5%	1/16W
R625	1-218-941-81	METAL CHIP	100	5%	1/16W
R626	1-218-977-11	METAL CHIP	100K	5%	1/16W
R627	1-218-941-81	METAL CHIP	100	5%	1/16W
R628	1-218-953-11	METAL CHIP	1K	5%	1/16W
R629	1-218-941-81	METAL CHIP	100	5%	1/16W
R630	1-218-941-81	METAL CHIP	100	5%	1/16W
R631	1-218-965-11	METAL CHIP	10K	5%	1/16W
R632	1-218-965-11	METAL CHIP	10K	5%	1/16W
R633	1-218-965-11	METAL CHIP	10K	5%	1/16W
R634	1-218-941-81	METAL CHIP	100	5%	1/16W
R635	1-218-977-11	METAL CHIP	100K	5%	1/16W
R637	1-218-977-11	METAL CHIP	100K	5%	1/16W
R638	1-218-941-81	METAL CHIP	100	5%	1/16W
R639	1-218-941-81	METAL CHIP	100	5%	1/16W
R640	1-218-977-11	METAL CHIP	100K	5%	1/16W
R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R642	1-218-941-81	METAL CHIP	100	5%	1/16W
R643	1-218-977-11	METAL CHIP	100K	5%	1/16W
R644	1-218-941-81	METAL CHIP	100	5%	1/16W
R646	1-218-965-11	METAL CHIP	10K	5%	1/16W
R647	1-218-977-11	METAL CHIP	100K	5%	1/16W
R648	1-218-977-11	METAL CHIP	100K	5%	1/16W
R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R650	1-218-941-81	METAL CHIP	100	5%	1/16W
R651	1-218-941-81	METAL CHIP	100	5%	1/16W
R652	1-218-941-81	METAL CHIP	100	5%	1/16W
R653	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R654	1-218-990-81	SHORT CHIP	0		
R655	1-216-864-11	SHORT CHIP	0		
R656	1-218-941-81	METAL CHIP	100	5%	1/16W
R657	1-218-977-11	METAL CHIP	100K	5%	1/16W
R658	1-218-941-81	METAL CHIP	100	5%	1/16W
R659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R660	1-218-941-81	METAL CHIP	100	5%	1/16W
R662	1-218-965-11	METAL CHIP	10K	5%	1/16W
R665	1-218-941-81	METAL CHIP	100	5%	1/16W
R666	1-216-296-11	SHORT CHIP	0		
R680	1-218-941-81	METAL CHIP	100	5%	1/16W
R681	1-218-977-11	METAL CHIP	100K	5%	1/16W
R682	1-218-977-11	METAL CHIP	100K	5%	1/16W
R683	1-218-990-81	SHORT CHIP	0		
R684	1-216-295-91	SHORT CHIP	0		
R701	1-216-864-11	SHORT CHIP	0		
R702	1-218-990-81	SHORT CHIP	0		
R703	1-216-864-11	SHORT CHIP	0		
R704	1-216-864-11	SHORT CHIP	0		
R705	1-218-990-81	SHORT CHIP	0		
R706	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R707	1-216-864-11	SHORT CHIP	0		
R708	1-216-864-11	SHORT CHIP	0		
R709	1-218-953-11	METAL CHIP	1K	5%	1/16W
R711	1-216-864-11	SHORT CHIP	0		
R712	1-242-967-11	METAL CHIP	1	5%	1/16W
R714	1-208-637-11	METAL CHIP	12	0.5%	1/16W
R715	1-216-864-11	SHORT CHIP	0		
R717	1-218-990-81	SHORT CHIP	0		
R718	1-218-941-81	METAL CHIP	100	5%	1/16W
R719	1-218-941-81	METAL CHIP	100	5%	1/16W
R720	1-218-990-81	SHORT CHIP	0		
R721	1-218-941-81	METAL CHIP	100	5%	1/16W
R722	1-218-941-81	METAL CHIP	100	5%	1/16W
R723	1-218-941-81	METAL CHIP	100	5%	1/16W
R724	1-218-947-11	METAL CHIP	330	5%	1/16W
R725	1-218-947-11	METAL CHIP	330	5%	1/16W
R726	1-218-969-11	METAL CHIP	22K	5%	1/16W
R727	1-218-990-81	SHORT CHIP	0		
R728	1-218-969-11	METAL CHIP	22K	5%	1/16W
R729	1-218-947-11	METAL CHIP	330	5%	1/16W
R731	1-216-864-11	SHORT CHIP	0		
R732	1-218-947-11	METAL CHIP	330	5%	1/16W
R733	1-218-990-81	SHORT CHIP	0		
R734	1-218-990-81	SHORT CHIP	0		
R735	1-218-947-11	METAL CHIP	330	5%	1/16W
R737	1-218-990-81	SHORT CHIP	0		
* R738	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
R739	1-218-989-11	METAL CHIP	1M	5%	1/16W
R740	1-218-941-81	METAL CHIP	100	5%	1/16W
R741	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R742	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R743	1-218-965-11	METAL CHIP	10K	5%	1/16W
R744	1-218-965-11	METAL CHIP	10K	5%	1/16W
R745	1-218-990-81	SHORT CHIP	0		
R747	1-218-977-11	METAL CHIP	100K	5%	1/16W
R748	1-218-983-11	METAL CHIP	330K	5%	1/16W
R749	1-218-977-11	METAL CHIP	100K	5%	1/16W
R750	1-218-967-11	METAL CHIP	15K	5%	1/16W
R751	1-216-841-11	METAL CHIP	47K	5%	1/10W
R752	1-218-941-81	METAL CHIP	100	5%	1/16W
R753	1-218-941-81	METAL CHIP	100	5%	1/16W
R754	1-218-941-81	METAL CHIP	100	5%	1/16W
R755	1-218-941-81	METAL CHIP	100	5%	1/16W
R756	1-218-941-81	METAL CHIP	100	5%	1/16W
R757	1-218-941-81	METAL CHIP	100	5%	1/16W
R758	1-218-977-11	METAL CHIP	100K	5%	1/16W
R760	1-218-977-11	METAL CHIP	100K	5%	1/16W
R761	1-218-977-11	METAL CHIP	100K	5%	1/16W
R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
R763	1-218-977-11	METAL CHIP	100K	5%	1/16W
R803	1-250-525-11	METAL CHIP	18K	1%	1/16W
* R805	1-250-543-11	METAL CHIP	100K	1%	1/16W
R806	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R807	1-250-529-11	METAL CHIP	27K	1%	1/16W
R808	1-250-640-11	METAL CHIP	10K	1%	1/10W
R809	1-250-640-11	METAL CHIP	10K	1%	1/10W
* R810	1-250-523-11	METAL CHIP	15K	1%	1/16W
R811	1-218-990-81	SHORT CHIP	0		
R812	1-218-941-81	METAL CHIP	100	5%	1/16W
R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
R814	1-218-966-11	METAL CHIP	12K	5%	1/16W
R815	1-257-321-11	METAL CHIP	0.039	1%	1/2W
R816	1-257-321-11	METAL CHIP	0.039	1%	1/2W
R817	1-216-864-11	SHORT CHIP	0		
R818	1-218-966-11	METAL CHIP	12K	5%	1/16W
R819	1-216-845-11	METAL CHIP	100K	5%	1/10W
R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
R822	1-250-602-11	METAL CHIP	270	1%	1/10W
R823	1-250-632-11	METAL CHIP	4.7K	1%	1/10W
R825	1-208-923-11	METAL CHIP	33K	0.5%	1/16W
R826	1-208-946-81	METAL CHIP	300K	0.5%	1/16W
R827	1-250-557-11	METAL CHIP	390K	1%	1/16W
R828	1-250-541-11	METAL CHIP	82K	1%	1/16W
R829	1-216-809-11	METAL CHIP	100	5%	1/10W
R830	1-250-533-11	METAL CHIP	39K	1%	1/16W
R831	1-218-977-11	METAL CHIP	100K	5%	1/16W
R832	1-250-495-11	METAL CHIP	1K	1%	1/16W
R833	1-250-495-11	METAL CHIP	1K	1%	1/16W
R834	1-216-809-11	METAL CHIP	100	5%	1/10W
* R835	1-250-540-11	METAL CHIP	75K	1%	1/16W
R836	1-216-809-11	METAL CHIP	100	5%	1/10W
R837	1-216-839-11	METAL CHIP	33K	5%	1/10W
* R838	1-250-545-11	METAL CHIP	120K	1%	1/16W
R839	1-250-563-11	METAL CHIP	680K	1%	1/16W
* R840	1-250-545-11	METAL CHIP	120K	1%	1/16W
R841	1-218-977-11	METAL CHIP	100K	5%	1/16W
R842	1-218-990-81	SHORT CHIP	0		
R845	1-218-990-81	SHORT CHIP	0		
R846	1-250-495-11	METAL CHIP	1K	1%	1/16W
R847	1-216-864-11	SHORT CHIP	0		
R848	1-216-801-11	METAL CHIP	22	5%	1/10W
R849	1-218-972-11	METAL CHIP	39K	5%	1/16W
R850	1-218-975-11	METAL CHIP	68K	5%	1/16W
R851	1-218-990-81	SHORT CHIP	0		
R852	1-250-519-11	METAL CHIP	10K	1%	1/16W
R853	1-208-897-81	METAL CHIP	2.7K	0.5%	1/16W
* R854	1-250-543-11	METAL CHIP	100K	1%	1/16W
R856	1-216-073-91	METAL CHIP	10K	5%	1/10W
R857	1-218-973-11	METAL CHIP	47K	5%	1/16W
R858	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R859	1-216-073-91	METAL CHIP	10K	5%	1/10W
R860	1-218-973-11	METAL CHIP	47K	5%	1/16W
R861	1-218-969-11	METAL CHIP	22K	5%	1/16W
R862	1-218-977-11	METAL CHIP	100K	5%	1/16W
R863	1-218-990-81	SHORT CHIP	0		
R865	1-208-948-11	METAL CHIP	360K	0.5%	1/16W
R868	1-216-821-11	METAL CHIP	1K	5%	1/10W
R869	1-216-821-11	METAL CHIP	1K	5%	1/10W
R870	1-250-495-11	METAL CHIP	1K	1%	1/16W
R871	1-248-473-11	METAL CHIP	0.068	1%	1/2W
R872	1-245-453-11	METAL CHIP	0.047	1%	1/2W
R878	1-216-296-11	SHORT CHIP	0		
R888	1-216-864-11	SHORT CHIP	0		
R890	1-216-864-11	SHORT CHIP	0		
R892	1-216-864-11	SHORT CHIP	0		
R894	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1001	1-216-296-11	SHORT CHIP	0		
R1002	1-216-296-11	SHORT CHIP	0		
R1003	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1004	1-218-941-81	METAL CHIP	100	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R1005	1-218-941-81	METAL CHIP	100	5%	1/16W
R1006	1-218-941-81	METAL CHIP	100	5%	1/16W
R1007	1-218-990-81	SHORT CHIP	0		
R1010	1-218-990-81	SHORT CHIP	0		
R1011	1-218-990-81	SHORT CHIP	0		
R1012	1-216-864-11	SHORT CHIP	0		
R1013	1-218-990-81	SHORT CHIP	0		
R1014	1-218-941-81	METAL CHIP	100	5%	1/16W
R1015	1-218-933-11	METAL CHIP	22	5%	1/16W
R1016	1-216-809-11	METAL CHIP	100	5%	1/10W
R1017	1-218-933-11	METAL CHIP	22	5%	1/16W
R1018	1-216-809-11	METAL CHIP	100	5%	1/10W
R1019	1-218-941-81	METAL CHIP	100	5%	1/16W
R1020	1-216-809-11	METAL CHIP	100	5%	1/10W
R1021	1-216-809-11	METAL CHIP	100	5%	1/10W
R1023	1-218-941-81	METAL CHIP	100	5%	1/16W
R1024	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1025	1-218-941-81	METAL CHIP	100	5%	1/16W
R1028	1-218-990-81	SHORT CHIP	0		
R1029	1-218-990-81	SHORT CHIP	0		
R1030	1-218-941-81	METAL CHIP	100	5%	1/16W
R1031	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R1032	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1033	1-218-967-11	METAL CHIP	15K	5%	1/16W
R1035	1-218-990-81	SHORT CHIP	0		
R1036	1-218-951-11	METAL CHIP	680	5%	1/16W
R1037	1-218-937-11	METAL CHIP	47	5%	1/16W
R1040	1-250-525-11	METAL CHIP	18K	1%	1/16W
R1052	1-216-864-11	SHORT CHIP	0		
R1055	1-216-864-11	SHORT CHIP	0		
R1056	1-216-864-11	SHORT CHIP	0		
R1090	1-218-990-81	SHORT CHIP	0		
R1117	1-218-990-81	SHORT CHIP	0		
R1145	1-216-296-11	SHORT CHIP	0		
R1173	1-216-296-11	SHORT CHIP	0		
R1300	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1301	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R1302	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1303	1-216-809-11	METAL CHIP	100	5%	1/10W
R1304	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R1306	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1307	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R1309	1-250-541-11	METAL CHIP	82K	1%	1/16W
R1310	1-250-541-11	METAL CHIP	82K	1%	1/16W
R1311	1-250-664-11	METAL CHIP	100K	1%	1/10W
R1312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1313	1-216-864-11	SHORT CHIP	0		
R1314	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1317	1-216-864-11	SHORT CHIP	0		
R1318	1-246-184-81	METAL CHIP	2.43K	0.5%	1/16W
R1320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1333	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1334	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1350	1-216-864-11	SHORT CHIP	0		
R1353	1-218-989-11	METAL CHIP	1M	5%	1/16W
R1354	1-216-296-11	SHORT CHIP	0		
R1355	1-216-864-11	SHORT CHIP	0		
R1358	1-216-864-11	SHORT CHIP	0		
R1359	1-216-864-11	SHORT CHIP	0		
* R1361	1-250-513-11	METAL CHIP	5.6K	1%	1/16W
		< TUNER UNIT >			
TU01	A-1946-531-A	TUX-DSP03 (TUNER UNIT)			
		< VIBRATOR >			
X501	1-814-485-11	QUARTZ CRYSTAL UNIT (48 MHz)			
X502	1-814-767-11	QUARTZ CRYSTAL UNITS (13.333 MHz)			
X503	1-814-777-11	QUARTZ CRYSTAL UNITS (32.768 kHz)			
X701	1-814-778-11	QUARTZ CRYSTAL UNITS (16.9344 MHz)			
X1300	1-814-367-11	QUARTZ CRYSTAL UNITS (30 MHz)			

MEMO

REVISION HISTORY

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Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2014.01	New
1.1	2014.04	Deletion of Part No. for Ref. No. IC804 (Not supplied) Change of Part No. for INSTRUCTION MANUAL and INSTALL INSTRUCTION MANUAL Change of MAIN board (Suffix-41) and Deletion of REGULATOR board (SUPPLEMENT-1) (SMR-13058)
1.2	2014.10	Applicable to areas other than the US and Canadian (SMR-14027)
1.3	2014.12	Applicable to the NFCtagWriter of ver. 1.0.2 Change of CABLE FLEXIBLE FLAT (27 CORE) (Ref. No. FFC1) Change of SHEET HEAT TRANSFER (Ref. No. 52) Change of Part No. for INSTRUCTION MANUAL and KEY (FRAME) (Ref. No. 502) Change of Part for Ref. No. C102, R894, R1301, R1302, R1304 and R1307 on the MAIN board (SUPPLEMENT-1) Deletion of Part for Ref. No. C875, CN502 and CN1001 on the MAIN board (SUPPLEMENT-1) Change of MAIN board (Suffix-42) (SUPPLEMENT-2) (SMR-14043)